Table of contents

Table of contents ........................................................................................................................................... 1
Background and review rationale ...................................................................................................................... 2
Cash transfers for improving education in Low and Middle Income countries ........................................... 3
Objectives .......................................................................................................................................................... 4
Methodology .................................................................................................................................................... 5
Inclusion and exclusion criteria that stay the same for any Toolkit strand ................................................. 5
Specific inclusion criteria for this Toolkit strand (definition of intervention) ................................................. 6
Search strategy for identification of relevant single studies ........................................................................... 7
Description of methods used in the included studies .................................................................................... 9
Sub-group analysis of global and local evidence ........................................................................................... 10
Identifying the primary outcome from a study for the Toolkit database ..................................................... 10
Statistical independence of findings from a single study .............................................................................. 11
Details of study coding categories .............................................................................................................. 12
Statistical procedures and conventions ....................................................................................................... 13
Within Study Synthesis ................................................................................................................................ 14
Toolkit Strand Synthesis ............................................................................................................................... 14
Sensitivity analysis ........................................................................................................................................ 15
Publication Bias ............................................................................................................................................. 15
Reporting ....................................................................................................................................................... 16
Personnel ....................................................................................................................................................... 16
Conflicts of interest ....................................................................................................................................... 17
Appendix A: Toolkit strand text draft template ............................................................................................. 17
Appendix B: Primary outcome identification ............................................................................................... 19
Appendix C: EEF Toolkit main data extraction v 1.0 June 2019 [Standard] ..................................................... 20
Appendix D: Quantitative data extraction codebook .................................................................................... 35
Appendix E: CEDIL educational outcome data extraction (v 1.0 October 2020) ........................................ 56
Appendix F: Strand specific coding tool for cash transfers ......................................................................... 61
Appendix G: Intervention implementation and transferability coding tool ............................................... 67
Background and review rationale

Education has been shown to be critical in the social and economic development of the society because when we invest in children’s education, there is a high chance of developing good parents and responsible citizens that can make well informed decisions. Improving the quality of education and educational attainment has been highlighted as one of the priority areas in the Sustainable Development Goals (SDGs). SDG4 states that “obtaining a quality education is the foundation to improving people’s lives and sustainable development” and SDG4.1 states that “by 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and Goal-4 effective learning outcomes.” This, therefore, highlights the need for inclusive and quality education for a more sustainable society. With the 2030 SDG target, efforts have been made by governments and development agencies to improve the rates of schooling and the quality of the education delivered.

There has been a rapid increase in schooling universally. The gross primary enrolment rate increased from 54.16% to 97.836% in Sub-Saharan Africa between 1970 and 2018 respectively, and from 72.377% to 104.363% in Middle East and North Africa within the same period, representing great strides in improving this sector (World bank 2018). With the lowest enrolment rates recorded in Sub-Saharan Africa, with an adjusted net primary enrolment rate (ANER) of 78.372%, we still have challenges withing this region in attaining universal primary education despite the gains made in primary enrolment. According to UNESCO 2011, there is a dropout rate in primary education of more than 30% in Sub-Saharan Africa, with more boys dropping out than girls, 18% compared to 16% respectively. Given the encouraging enrolment figures from primary enrolment, enrolment in secondary schools remain low, with an ANER of 35.584% as of 2018 in Sub-Saharan Africa (World Bank, 2018). There are a couple of factors that will hinder children from staying enrolled in schools. These include; poverty, gender, conflict, early marriages, childbirth, and costs. It is therefore critical not to only focus on enrolling children in schools but to make sure that they complete schooling as this will ensure better educational attainment.

In the past, interventions aimed at improving educational outcomes have focused on the supply side. These include; giving learning materials, training teachers and building school structures. The past few years have seen an increase in investments in the demand side, with interventions focusing on reducing household costs on education. Cash transfer programs have gradually gained interest especially in Low and Middle-Income Countries (LMIC) as these programs target poor households and aim at increasing the demand for education by these households. Cash transfer programs could either be conditional cash transfer (CCT) or unconditional cash transfer (UCT), with both types generally targeting transfer of cash to mothers and/or children of poor households. These programs

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1 (World Bank, 2011)
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

are normally carried out in most cases by governments and development agencies, with smaller programs run by smaller NGOs or smaller organizations.3

CCT aims at making cash transfer to households that attain certain criteria as defined by the intervention such as taking children for healthcare checks, school enrollment and attendance of children, with a goal of stopping the poverty cycle.4 UCT will normally entail a transfer of cash to poor households, but with no explicit conditions, with the argument that lack of money is the main constraint for poor people to get out of poverty and not knowledge, and they are in the best position to decide on what to do with the cash based on their scale of preference5.

Cash transfers for improving education in Low and Middle Income countries
With the poor educational outcomes in most low and middle income countries compared to those in the global North, the governments of these countries alongside development agencies continuously seek effective means of improving educational outcomes as per SDG 4. This has seen investments in different interventions striving to improve education outcomes both from the supply and demand side. Cash transfers (both conditional and unconditional) have gradually gained interest in Sub-Saharan Africa to address the demand side of education. In the 1990s, CCTs came up in Latin Central American countries. Programa de Educación Salud y Alimentación (PROGRESA), which later became Oportunidades, ranks amongst the best known CCT programs. It started in 1997 in rural areas of Mexico, and sort to give out cash grants to low-income families in exchange for their children’s regular school attendance and health clinic visits and, it gradually extended to a national programme. There is also the Bolsa Familia programme in Brazil that succeeded to reach over 12 million homes in 2010. Due to positive results from programme evaluation in countries like Mexico and Brazil, most Latin American countries embraced CCTs, with a further over 30 countries in the world also taking up this program6.

Cash transfer programs have been shown to have significant effects on school enrolment, school attendance, a reduction in school dropout rates and school completion, with CCTs increasing the odds of a child being enrolled in school by 41% and UCTs increasing the odds by 23%.7 CCT programs were found on average to be more effective in improving secondary school enrollment compared to primary enrollment rates and given the low enrollment rates for secondary schools compared to primary schools in developing countries, this finding will probably indicate that CCTs might have positive impacts on enrollment within a context with a low enrollment at baseline.8 Despite

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3 Baird et al., “Relative Effectiveness of Conditional and Unconditional Cash Transfers for Schooling Outcomes in Developing Countries: A Systematic Review.”
5 Baird et al., “Relative Effectiveness of Conditional and Unconditional Cash Transfers for Schooling Outcomes in Developing Countries: A Systematic Review”; Hulme, Hanlon, and Barrientos, Just Give Money to the Poor: The Development Revolution from the Global South.
6 Krishnaratne and White, “Quality Education for All Children?”
8 Fiszbein and Schady, Conditional Cash Transfers: Reducing Present and Future Poverty; Garcia and Saavedra, “Educational Impacts and Cost-Effectiveness of Conditional Cash Transfer Programs in Developing Countries.”
increasing the school enrollment and attendance rates, there is limited evidence to say with surety if
cash transfer programmes unequivocally improve school completion rates.\textsuperscript{9} A few programme
evaluations have looked at assessing cognitive and language skill development among preschool
children and there were positive but small effects for these outcomes.\textsuperscript{10} This ties with results from a
meta-analysis that showed no significant effects on maths and language arts test scores for school
children.\textsuperscript{11}

The magnitude of the impact on enrollment has been shown to depend on particular beneficiary
characteristics. There was a larger impact on enrollment for students from the poorest families \textsuperscript{12},
students progressing between schooling levels (e.g primary to lower secondary)\textsuperscript{13}, and children of
age to be in grades with especially low enrollment rates.\textsuperscript{14} Many features of program design will
influence the degree of the impact of cash transfers as the length of treatment exposure can make a
difference. An evaluation of the \textit{Progressa} programme in Mexico found out that children who were
exposed to the programme for a longer time i.e from 1997 to 2003 had larger educational
attainment impacts.\textsuperscript{15} These factors are therefore vital and should be considered during the
implementation of cash transfer programs.

\section*{Objectives}

The objective of all Toolkit strands is to clearly communicate the evidence for a particular approach,
including the impact, cost and security of the evidence base.

\subsection*{Primary research questions:}

1. What is the average impact of cash transfer programs on the educational attainment of pupils?
2. What factors moderate the impact of cash transfer programs on pupil outcomes?

\subsection*{Secondary research questions:}

1. What type of cash transfer program (conditional or unconditional) is more effective in
   improving educational attainment of pupils?
2. What is the average impact of cash transfer programs on school completion?
3. What is the average impact of cash transfer programs on school enrolment?
4. What is the average impact of cash transfer programs on school attendance?

\textsuperscript{9} Masset, “Impossible Generalisations.”

\textsuperscript{10} Fernald, Gertler, and Neufeld, “10-Year Effect of Oportunidades, Mexico’s Conditional Cash Transfer Programme, on
Child Growth, Cognition, Language, and Behaviour”; Fernald and Hidrobo, “Effect of Ecuador’s Cash Transfer Program
(Bono de Desarrollo Humano) on Child Development in Infants and Toddlers,” 2011; Fernald and Hidrobo, “Effect of
Ecuador’s Cash Transfer Program (Bono de Desarrollo Humano) on Child Development in Infants and Toddlers,” 2011;
Macours, Schady, and Vakis, \textit{Cash Transfers, Behavioral Changes, and Cognitive Development in Early Childhood}; Schady
and Paxson, \textit{Does Money Matter}?

\textsuperscript{11} Baird et al., “Relative Effectiveness of Conditional and Unconditional Cash Transfers for Schooling Outcomes in
Developing Countries: A Systematic Review.”

\textsuperscript{12} Galiani and McEwan, “The Heterogeneous Impact of Conditional Cash Transfers.”

\textsuperscript{13} Schultz, “School Subsidies for the Poor.”

\textsuperscript{14} Maluccio and Flores, \textit{Impact Evaluation of a Conditional Cash Transfer Program}.

\textsuperscript{15} Behrman, Parker, and Todd, “Long-Term Impacts of the Oportunidades Conditional Cash Transfer Program on Rural
Youth in Mexico.”
5. What is the average impact of cash transfer programs on school dropout rates?
6. How does global evidence on cash transfers compare with evidence from Sub-Saharan Africa?
7. What is the average impact of cash transfer programs on the economic outcomes of households?

Methodology

Inclusion and exclusion criteria that stay the same for any Toolkit strand

<table>
<thead>
<tr>
<th>Inclusion criteria</th>
<th>Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>The majority of the sample (&gt;50%) on which the analysis is based are learners or pupils aged between 3-18 (further education or junior college students are be included where their study is for school level qualifications).</td>
<td>The majority of the sample are: post-secondary education; in higher education; adults; infants under 3; other students over 18.</td>
</tr>
<tr>
<td>The intervention or approach is undertaken in a normal educational setting or environment for the learners involved, such as a nursery or school or a typical setting (e.g. an outdoor field centre or museum).</td>
<td>Laboratory studies Specially created environments (both physical and virtual) designed for theoretical research questions, rather than educational benefit.</td>
</tr>
<tr>
<td>A valid counterfactual comparison between those receiving the educational intervention or approach and those not receiving it.</td>
<td>Single group and single subject designs where there is no control for maturation or growth.</td>
</tr>
<tr>
<td>Assessment of educational or cognitive achievement which reports quantitative results from testing of attainment or learning outcomes such as by standardised tests or other appropriate curriculum assessments or school examinations or appropriate cognitive measures.</td>
<td>Attitudinal, affective or motivational outcomes.</td>
</tr>
<tr>
<td>A quantitative estimate of the impact of the intervention or approach on the educational attainment of the sample involved in the intervention or approach can be calculated or estimated in the form of an effect size (standardised mean difference) with its standard error based on a counterfactual comparison.</td>
<td>Purely qualitative outcomes Studies where an effect size (standardised mean difference) and standard error cannot be identified, calculated or estimated with reasonable precision.16</td>
</tr>
<tr>
<td>Studies from any country or region that have been translated into English.</td>
<td>No exclusions on the basis of region. Studies that are not available in English for data extraction may be excluded.17</td>
</tr>
</tbody>
</table>

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16 Such as by using the conversions available in programs like Comprehensive Meta-Analysis, or David B. Wilson’s online conversion tool: https://campbellcollaboration.org/escalc/html/EffectSizeCalculator-Home.php.

17 Note: where teams have the capability to do data extraction in additional languages, this may be added to the protocol. This currently requires researchers to be bilingual, as the data extraction tools are currently only available in English. Development work to translate the tools is underway.
### Specific inclusion criteria for this Toolkit strand (definition of intervention)

<table>
<thead>
<tr>
<th>Inclusion criteria</th>
<th>Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studies that report on either conditional or unconditional cash transfers directly to households or female heads of households. Conditionalities will be defined as expressed in Baird et al. (2012) on a scale from 0 to 8.</td>
<td>All interventions that do not meet this description.</td>
</tr>
<tr>
<td>Interventions targeting both boys and girls will also be included.</td>
<td>Studies that report only economic outcomes will not be included.</td>
</tr>
<tr>
<td>- All cash transfers program within schools or learning environments.</td>
<td></td>
</tr>
<tr>
<td>- Studies should be Randomised Controlled Trials (RCTs), observational studies and Meta-Analysis.</td>
<td></td>
</tr>
<tr>
<td>- Relevant qualitative studies will be captured under a code on Eppi Reviewer for subsequent use but will not be used as part of this study.</td>
<td></td>
</tr>
<tr>
<td>- We will not exclude studies based on language. Studies in French, Spanish and Portuguese will be coded where possible using the English data extraction form.</td>
<td></td>
</tr>
<tr>
<td>- We will include peer reviewed publication and grey literature</td>
<td></td>
</tr>
</tbody>
</table>

They must include one of the education outcomes from our PICO (educational attainment, enrolment, attendance, dropout, completion). Studies that included report economic outcomes and are education focused will be included / coded for our interest. Educational attainment is further defined here as: quantitative data from the evaluation of an individual’s or group’s achievement of specific learning objectives, using a variety of assessment methods (scores or marks from written, oral and practical tests/examinations, projects and marked portfolios) during or at the end of an education programme.
Search strategy for identification of relevant single studies

<table>
<thead>
<tr>
<th>Population</th>
<th>Students, pupil, learners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intervention</td>
<td>Cash transfers.</td>
</tr>
<tr>
<td>Control</td>
<td>None, usual practice</td>
</tr>
<tr>
<td>Outcome</td>
<td>School dropout, enrolment, educational attainment, attendance, completion.</td>
</tr>
</tbody>
</table>

A new systematic search will be undertaken for primary studies. These sources will be used (gateways and databases):

- **3ie database**
  - 3ie Development Evidence Portal
  - Journal of development effectiveness

- **African Gateways**
  - AAS Open Research
  - Twendemele.org
  - Made In Africa Evaluations

- **First search**
  - Article First
  - ECO
  - Papers First
  - World Cat Dissertations

- **EBSCO**
  - BEI
  - Education Abstracts
  - Education Administration Abstracts
  - ERIC
  - PsycArticles
  - PsycINFO

- **Taylor and Francis**
  - Educational Research Abstracts Online

- **ProQuest**
  - ProQuest Dissertations and theses (Global)

- **Elsevier**
  - Science Direct

- **Thomson Reuters**
  - Web of Science

In addition, informal searching for 'grey' literature (reports and unpublished studies) is undertaken using Google, Google Scholar, Global Partnerships for Education, and Microsoft Academic.

Google scholar has a 256 character limit and does not automatically search for truncations. A more limited search string will be used for the Google Scholar search. The search will then be filtered to
Cash Transfers  
Protocol for a Toolkit strand

Template last updated: February 2020

limit the results to studies that are published since 2005. We will look at the first 200 results in Google Scholar, in line with the recommendation of Haddaway et al. 2015\(^\text{18}\).

Our approach does not use citation searching, ‘pearl growing’\(^\text{19}\) or expert nomination, though we used these techniques to ensure the adequacy of search terms\(^\text{20}\). Our rationale for this is that the use of such approaches on their own, without subsequently adapting the search criteria are likely to increase the risk of publication bias\(^\text{21}\). Where we identify includable studies from non-systematic approaches we aim to refine our search criteria and to run additional searches to find other similar studies retrieved with the amended search strings.

**Search strings**

<table>
<thead>
<tr>
<th>Platform</th>
<th>Date</th>
<th>Database</th>
<th>Search String</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Search</td>
<td>Article First</td>
<td>3ie</td>
<td>(kw: poor w household OR kw: low w income OR kw: child* OR kw: school* OR kw: early w years OR kw: kindergarten or kw: pre-primary or kw: primary or kw: secondary w school) not (kw: universit* or kw: college) and (kw: cash w transfer* OR kw: transfer w pay* OR kw: poverty w alleviation w transfer* OR kw: child w support OR kw: incentiv* OR kw: hand-out* OR kw: grant* OR kw: aid OR kw: assistance OR kw: benefit* OR kw: welfare w grant* OR kw: social w protection w assistance) and (kw: attainment OR kw: achievement OR kw: impact OR kw: school w enrol* OR kw: school w attendance OR kw: school w completion OR kw: dropout OR kw: drop-out)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Papers First</td>
<td>3ie</td>
<td>abstract:(&quot;Poor household*&quot; OR &quot;low-income&quot; OR Child* OR School* OR &quot;early years&quot; OR kindergarten OR &quot;pre-primary&quot; OR Primary OR &quot;Secondary school&quot;) AND abstract:(&quot;Cash transfer*&quot; OR &quot;cash-transfer*&quot; OR &quot;transfer payment*&quot; OR &quot;transfer program&quot; OR &quot;poverty alleviation transfer*&quot; OR &quot;child support* OR &quot;pay* OR transfer* OR incentiv* OR hand-out* OR handout* OR grant* OR aid OR assistance OR benefit* OR &quot;welfare grant*&quot; OR &quot;social protection assistance&quot;) AND abstract:(attainment OR achievement OR &quot;academic achievement&quot; impact OR &quot;test score&quot; OR performance OR enrol* OR attendance OR &quot;school completion&quot; OR dropout OR dropout)</td>
<td></td>
</tr>
<tr>
<td>EBSCO</td>
<td>eBook collection</td>
<td>Education Abstracts</td>
<td>AB (&quot;Poor household*&quot; OR &quot;low-income&quot; OR Child* OR school* OR &quot;early years&quot; OR kindergarten OR &quot;pre-primary&quot; OR Primary OR &quot;Secondary school&quot;) NOT (universit* or college) AND AB (&quot;Cash transfer*&quot; OR &quot;transfer pay*&quot; OR &quot;transfer prog*&quot; OR &quot;poverty alleviation transfer*&quot; OR &quot;child support* OR incentiv* OR hand-out* OR grant* OR aid OR assistance OR benefit*)</td>
<td></td>
</tr>
</tbody>
</table>

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Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

<table>
<thead>
<tr>
<th>Population</th>
<th>Interventions</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Poor household&quot; OR &quot;low-income&quot; OR Child OR School OR &quot;early years&quot; OR kindergarten OR &quot;pre-primary&quot; OR Primary OR &quot;Secondary school&quot;</td>
<td>&quot;Cash transfer&quot; OR &quot;cash-transfer&quot; OR &quot;transfer payment&quot; OR &quot;transfer program&quot; OR &quot;poverty alleviation transfer&quot; OR &quot;child support&quot; OR &quot;pay&quot; OR transfer OR incentive OR hand-out OR handout OR grant OR aid OR assistance OR benefit OR &quot;welfare grant&quot; OR &quot;social protection assistance&quot;</td>
<td>attainment OR achievement OR &quot;academic achievement&quot; impact OR &quot;test score&quot; OR performance OR enrol OR attendance OR &quot;school completion&quot; OR dropout OR drop-out</td>
</tr>
</tbody>
</table>

Description of methods used in the included studies

The inclusion criteria aim to identify studies with a valid counterfactual comparison between those receiving the educational intervention or approach and those not receiving it. True experimental (randomised) and quasi-experimental studies (both prospective and retrospective) designs are therefore included if they feature two educational conditions addressing the central theme of each Toolkit strand (e.g. peer tutoring compared with no peer tutoring or studies contrasting reduced class size with normal or usual sized classes). Other designs such as interrupted time series or regression discontinuity are included where they similarly provide an estimate of the effect of the intervention or approach. Design features are coded to allow for exploratory analysis. The different counterfactual conditions are:

- an active control (i.e. there is control for novelty such as with another introduced new intervention or ‘treatment’);
- business as usual (i.e. comparison group having their usual learning experience);
- no equivalent teaching (i.e. additional learning time, where the control or comparison group have no typical educational experience, such as in a Summer School intervention or a Before or After school club)\(^2\).

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\(^2\) At this stage we are not including studies which directly compare two interventions, without a control or comparison group. These studies would be valuable to include if we can identify sufficient studies for other systematic comparisons such as in a network meta-analysis (Lumley, 2002).
Sub-group analysis of global and local evidence

We will search for studies from all countries, but we will do a subgroup analysis of studies from LMICs and SSA. We will compare these results to global evidence results.

Identifying the primary outcome from a study for the Toolkit database

Identifying the best single outcome from a study is not always straightforward as the study aims are not necessarily the same as the Toolkit aims. The key principles adopted to support identification are:

- **A good test of the impact of the intervention for the Toolkit**
  The main issue to consider is the alignment of the study with the EEF Toolkit in terms of the research design and research questions. This review is seeking for the best estimate of the difference between pupils experiencing the intervention or approach with the most appropriate counterfactual condition (those not experiencing the intervention or approach).

- **An appropriate measure of educational attainment**
  The next issue is the identification of which specific curriculum or cognitive outcome is most appropriate. In general, the focus is on outcomes which are good indicators of overall educational attainment, such as reading comprehension or a standardised test of mathematics. Standardised tests or national tests and examinations tend to be better overall indicators of educational performance than researcher-designed measures or teacher-designed class tests.

- **As direct and fair a measure as possible**
  Simple outcomes rather than combined ones across subjects are usually preferable (so reading or mathematics rather than an overall score that combines both). This is not always straightforward. In a pedagogical intervention where the focus is on general strategies and is taught across several curriculum subject it can be difficult to decide which is the primary outcome for the Toolkit. Peer-tutoring delivered in reading and mathematics may have one designated as the primary and another as the secondary or they may be combined and the average reported. It may be appropriate to combine them when they are equally valid possible outcomes. In this case the separate scores for each subject would also need to be recorded so that subject specific meta-analyses can be conducted.

The research literature distinguishes between treatment inherent and treatment independent measures. In practice they can be hard to separate. Criterion-referenced measures can be particularly problematic here. In a spaced-learning intervention in history, a school history knowledge test is only fair if the control group were also being taught the same topic in history. Another example might be a phonics intervention where the intervention group are taught letter sounds and compared with a business-as-usual control. Here a letter recognition test may not provide a fair comparison as it is likely to over-estimate the impact on reading (as opposed to impact on letter recognition). In fact, such a measure might be a better measure of implementation fidelity.

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On the other hand, evaluating the impact of teaching number fact recall with a standardised test of mathematics may similarly under-estimate effects if number forms only a limited part of the standardised test.

Some examples are provided below to exemplify the issues:

1) In a study of self-regulated learning in writing for primary school pupils, a researcher-designed writing test and standardised test of mathematics were both used at the beginning of the intervention. The standardised test of mathematics was used to investigate the far transfer effects of SRL. The primary outcome here would be the writing results. Coders would be expected to note that there was additional outcome data available, but that this was to assess far transfer.

2) In an evaluation of a phonics intervention a series of outcome measures were used including letter recognition, reading fluency and a picture vocabulary test. There was no overall assessment of reading comprehension. Reading fluency was designated as the primary outcome as the researchers had used a subscale of a standardised reading test. In this case the different reading measures could be combined to provide an overall measure of reading capability. This presents a complex challenge as the letter recognition test is arguably treatment inherent so may over-estimate the impact of the intervention on reading outcomes. It is difficult to see why there might be a direct impact from a phonics intervention on vocabulary. This measure is often used a broader indicator of literacy knowledge. Over a short timescale this might not capture the direct impact of the intervention.

3) In a thinking skills intervention taught in secondary schools through separate lessons the primary outcome reported in the study was the impact on Raven’s matrices (a standardised test of reasoning) assessed after one term at the end of the intervention. Impact was also assessed on English and mathematics using the school’s end of year exam results (two terms later). In this case the cognitive outcome could be used as the primary outcome and the school examination results were added as secondary measures. The tension here is between what may seem a more treatment inherent measure (reasoning) set against the more ecologically valid, but unstandardised, indirect and delayed curriculum measures.

These considerations have resulted in a flow diagram to aid coders in identifying the primary outcome (see Appendix B) where the aim is to identify in each study the most comparable effect size for the Toolkit, but which also takes into account the nature of the particular intervention. Additional secondary outcomes (such as alternative measures of attainment), or equivalent measure in different subjects (where applicable for the intervention) are also identified and extracted.

**Statistical independence of findings from a single study**

There are a number of threats to the validity of findings related to statistical dependence. These are:

1) use of data from the same participants for different outcomes;
2) reporting multiple outcomes of the same type; and
3) aggregating outcomes of different types for the same sample of participants.
We identify one primary outcome for the Toolkit strand from each study (see Appendix B). This is usually, but not necessarily the primary outcome of the study. Other equivalent academic and cognitive outcomes are recorded as secondary outcomes. Where it is not possible to identify a single preferred outcome (such as a reading intervention where a standardised test of reading comprehension is not reported), comparable outcomes are combined to produce one overall effect for the study (such as word reading, reading fluency or decoding skills).

**Details of study coding categories**

Coding is undertaken with five data extraction tools (see Appendix C, D, E, F). Methodological quality can be assessed using features such as design, the unit of assignment/analysis, attrition reported and method of effect size estimation.

- EEF main data extraction (v 1.0 June 2019), used for all studies: Appendix C
- EEF Toolkit effect size data extraction (v 1.0 June 2019), used for all studies: Appendix D.
- CEDIL additional educational outcome data extraction (v 1.0 October 2020) focusing on recording outcomes that are more commonly used in the development literature (e.g. attendance, enrolment, drop-out, completion): Appendix E
- A strand specific coding tool has also been developed for cash transfers which will record intervention characteristics specific to cash transfers can be found in Appendix F
- The studies that take place in low and middle income countries (LMICs) will also be coded using a new data extraction tool, currently under development, which will focus on recording barriers to intervention implementation and transferability

The main coding tool was developed based on a comparison of available and relevant alternative coding frameworks (e.g. EPPI Centre Education guidelines (version 0.97/2003), Lipsey and Wilson (2001), IES/WWC, 3iE).

The CEDIL additional educational outcome data extraction tool was developed outcomes that are more commonly used in the development literature (e.g. attendance, enrolment, drop-out, completion). This code set may be updated following further engagement with and understanding of the research literature on the topic resulting from the process of screening the title and abstracts of individual studies for inclusion in the review.

The strand specific coding tool was developed based on a comparison of moderators used in available and relevant meta-analyses/reviews of cash transfers (Garcia & Saavedra, 2017; Saavedra

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25 In some cases, the active control may be the ‘intervention’ we are interested in for the Toolkit, for example where teaching assistant support was provided as a comparison condition to a particular intervention. In other cases, the primary outcome for a reading intervention, for example, may be specified in the study as letter recognition, but we would identify reading comprehension as the primary outcome for the Toolkit, so as to identify as comparable outcomes as possible (Higgins, 2018).


27 We have not selected a specific quality appraisal or risk of bias tool as the evidence is limited about the validity of these tools (in medicine at least: Hartling et al. 2009; KatiKirendi et al. 2009) and the choice of tool has a direct impact on the outcomes of a meta-analysis (Voss & Rehfuess, 2013). We intend to undertake methodological exploration of the relationship between features of study quality and risk of bias in the development of the database.


& Garcia, 2012) and reviewing definitions and program theories of cash transfers as reported in individual studies, reviews and meta-analyses of the approach (Baird, 2003; Conn, 2014; Damon, 2016; Engle, 2011; Garcia, 2017; Jackson, 2019; Kremer, 2013; Krishnaratne, 2013; Murnane, 2014; Saaverda, 2012; Snilstveit, 2016). This code set may be updated following further engagement with and understanding of the research literature on the topic resulting from the process of screening the title and abstracts of individual studies for inclusion in the review.

Demographic study features include learners’ age, socio-economic background and attainment level, as well as subject matter studied. Substantive features across studies will be used to explore variation in terms of pedagogical codes such as, treatment duration, provision of professional development for teachers and training for students, depending on approach. All these study features will be subsequently analysed as moderators for their potential relationship with outcome effects.

All coding activities (i.e., abstract screening, full-text review, study features coding, as well as effect size extraction) will be carried out by a team of reviewers, each working independently but discussing and resolving queries, when necessary eliciting a third opinion from the core project team. All coders receive training and have to achieve an agreed level of reliability to be included in the coding team. A 10% sample of studies (per coder and per strand) are double coded to assess reliability rates\(^\text{30}\).

**Statistical procedures and conventions**

The database aims to include and summarize quantifiable school attainment outcomes from primary empirical studies which meet the inclusion criteria and match the Toolkit themes. The key metric used is the Standardised Mean Difference (d-index) or effect size. A summary table of the characteristics of included studies will be reported for each meta-analysis.

For studies that report descriptive statistics for continuous measures of pupil attainment outcomes, the post-intervention mean of the control group will be subtracted from the post-intervention mean of the intervention group and the resulting difference will be divided by the pooled standard deviation, adjusted for sample size (Hedges’ \(g\)). An accompanying standard error (representing the 95% confidence interval) will also be recorded\(^\text{31}\). Where ever possible the descriptive outcome statistics (N, means and standard deviations for control and intervention groups) will be collected, even where the study report reports an effect size and accompanying standard error, or where an effect size can be calculated from other inferential statistics.

All effect sizes will be coded either as resulting from a post-test or gain comparison. These effect sizes will be meta-analysed separately as they may represent different metrics (such as when the intervention affects the relative spread of the intervention group\(^\text{32}\)). For studies where there is

\(^{30}\) Our initial assessments of reliability look at percentage agreement. We intend to undertake an analysis of coding which considers the code difficulty alongside coder reliability (Stemler, 2004).

\(^{31}\) The standard error can be calculated from the confidence intervals or estimated from p-values: https://handbook-5.1.cochrane.org/chapter_7/7.7.2_obtaining_standard_errors_from_confidence_intervals_and.htm

substantial baseline imbalance\textsuperscript{33} a gain score effect size may be selected (such as in quasi-experimental designs or natural experiments).

Outcome data are, however, likely to be reported in a variety of formats. For studies that report inferential statistics such as $t$, $F$, or $p$-values only, the appropriate conversion formula will be applied to calculate the $d$-index as the effect size estimate.\textsuperscript{34} To ensure appropriate corrections for the small sample size bias, all $d$-indices will be converted to the unbiased Hedges’ $g$ statistic.

Within Study Synthesis

This review focuses on academic attainment outcomes. It is likely that in some studies there will be several measures of the same or similar outcomes from the same sample of learners. When this happens, we will select the most representative measure (see above). When no single outcome is judged to be appropriate in relation to the design of the study and the Toolkit strand it is included, we will average effects deriving from similar or complementary measures of school attainment. If the same group of participants is used more than once (such as the same control group compared with two different treatment groups, each applicable to the Toolkit) the sample size and associated standard error will be reduced proportionally so as it contributed fairly to the overall average.

Toolkit Strand Synthesis

Initial study analysis and data checking will be undertaken in EPPI Reviewer 4.0\textsuperscript{35} the main software used for the review. The meta-analysis functions allow for complex meta-analysis analysis to be undertaken and are based on the ‘metafor’ package in R\textsuperscript{36}. Independent effect sizes will be aggregated across studies for each Toolkit strand using a random effects model\textsuperscript{37} as the assumptions for applying a fixed effect model will not be met (i.e. conceptual similarity of the interventions and approaches in each strand or a sample constituting the complete population of relevant studies). The results from a random effects model analysis also perhaps best represent the overall effect of a collection of educational interventions and approaches on learning across different age groups, school subjects and educational contexts.

A complete dataset for all of the underlying studies in the evidence portal as a whole will also be exported for further sensitivity exploratory analysis as they become available. A series of analyses

\textsuperscript{33} Chance imbalance is likely to occur in randomized studies (the smaller the study the greater the risk) and can usually be dealt with through an analysis which takes account of baseline measurements. Theoretically, if sampling of randomized studies in a meta-analysis is unbiased any imbalance is likely to even out with a large number of studies. We intend to undertake further exploration of the differences between post-test only, post-test adjusted and gain estimates of effect to identify the advantages and disadvantages of the different approaches.


will be undertaken to check aggregation of effect sizes across studies, sensitivity analyses (see below) and to replicate moderator analyses, using Comprehensive MetaAnalysis 3.0. A random effects model will be adopted for each meta-analysis and the heterogeneity of the distribution of the effect sizes assessed using Q and I². A pre-specified set of coded study features will be further explored through moderator variable analysis under a mixed effects model, as potential sources of systematic variation (see Appendices D-F for these variables).

**Sensitivity analysis**

To assess potential bias associated with individual out-of-range calculated effect sizes which may potentially distort the overall interpretation of the findings, a sensitivity analysis will be undertaken. This is intended to determine whether the removal of a particular effect size increases the fit of the remaining effect sizes in a homogeneous distribution while not substantially affecting the interpretation of the recalculated mean effect size. Various approaches to identifying potential outliers will be used, including visual examination of data organized into a forest plots and also performing "one study removed". Identified outliers will be examined with the potential to remove them from the final dataset. Potential sources of bias, such as study design, type of treatment, publication source, missing data, sample size, or attrition, will be carefully examined through the corresponding moderator variable analyses.

**Publication Bias**

Relying on available and published studies may bias or inflate the overall intervention effect, particularly in education with a relatively large proportion of smaller studies. To evaluate potential publication bias across the database, we will review the associations between publication type and the pooled effect (i.e. journal article, dissertation or thesis, technical report, book or book chapter, conference paper, and other). Thesis completion is not usually influenced by the size of the effect, unlike journal articles.

Other methods for assessing publication bias will be explored, such as a visual inspection of a funnel plot or Duval & Tweedie’s (2000) trim and fill routine available in Comprehensive Meta-Analysis (CMA) (Borenstein et al., 2005). Becker (2005) and Banks et al. (2012), however, recommend the discontinuation of the use of the failsafe N to assess publication bias, as the results are often biased.
inconsistent with the results from other publication bias methods. In education all of the methods to detect publication bias are problematic due to the negative association between sample size and effect size.45

**Reporting**

- The findings will be communicated as a Toolkit “strand” as part of a wider evidence portal. The full statistical analysis for the portal can be found here. Examples of previous strand write ups can be found here.
- A template is included as appendix A, which shows the main reporting structure for the completed strand.

**Personnel**

<table>
<thead>
<tr>
<th>Team Members</th>
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<tr>
<td>Mbah Patrick Okwen</td>
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<td>Loveline Lum Niba</td>
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<td>Tangang Andrew</td>
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<td>Steve Higgins</td>
<td>Durham University</td>
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<td>Alaidde Berenice Villanueva-Aguilera</td>
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<td>Emma Dobson</td>
<td>Durham University</td>
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<td>Louise Gascoine</td>
<td>Durham University</td>
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Conflicts of interest

This review is funded by the Centre for Excellence and Development Impact and Learning (CEDIL) and the Education Endowment Foundation and will be undertaken by a team of researchers, based at Durham University and eBASE. There are no conflicts of interest, so far as the team are aware.

Appendix A: Toolkit strand text draft template

| Strand title | [Strand title] |
| Update date | [date] |
| Number of studies | [insert] |
| Cost | £X per pupil per year |
| Padlocks | |
| Impact | [insert] months |
| What is it? | |

**Global**

[Strand title] (also known as [other search terms]) means [description].

[Detailed description of what that looks like in the classroom].

[Details of approaches that are not included within the summary, if relevant]

**Key findings**

| Global | TBC |
| Global | |
| Global | |
| Global | |
| Global | |

**Local**

Optional local “what should I consider?”

**How effective is the approach?**
Cash Transfers
Protocol for a Toolkit strand

| Global | The average impact of the deployment of teaching assistants is about an [additional three months] progress over the course of a year. |
| Behind the average | |
| Global | [Impact on age] |
| Global | [Impact by subject] |
| Global | [Strand specific pedagogy] |
| Global | [Impact by digital technology] |
| Local | [Impact by country] |

| Closing the disadvantage gap |
| Local | Studies in England have shown that pupils eligible for free school meals typically receive [additional benefits/less benefit] from [strand title]. [Discuss how theory of change may be subject to barriers for disadvantaged pupils] |

| How could you implement in your setting? |
| Global | [Summary of how the approach might work] |
| Core components of [strand title] might include [component, e.g. close interaction between TAs and pupils]. |
| Global | [Teaching assistant] interventions are typically delivered over [insert period of time]. [insert typical delivery if relevant]. |
| [Any other information on implementation from data extraction e.g. small group/whole class] |

| Local | The average cost of [strand title] is [insert]. The cost to schools is largely based on [resources/teacher time/training (delete as appropriate)]. |
| Implementing [strand title] will also require a [small/moderate/large] amount of staff time, compared with other approaches. |
| Alongside time and cost, school leaders should consider how to maximise [active ingredient] and avoid [barrier to implementation]. |
| When introducing new approaches, schools should consider implementation. For more information see [Putting Evidence to Work – A School’s Guide to Implementation]. |

| Relevant EEF studies | [List of EEF projects that are included in effect size for linking project cards] |
| How secure is the evidence? |
| Global | Description of security of the evidence. Specific language TBC when padlock system is agreed upon. |

| Next steps |
| Local | Links to relevant guidance reports/EEF projects |
Appendix B: Primary outcome identification
Appendix C: EEF Toolkit main data extraction v 1.0 June 2019 [Standard]

Public version of the main data extraction tool used to code studies included in the Education Endowment Foundation's database of studies for the Toolkit.

Section 1 What is the publication type? [Not selectable (no checkbox)]
Journal article [Selectable (show checkbox)]
A report published in a peer-reviewed journal with an ISSN.
Dissertation or thesis [Selectable (show checkbox)]
A report of a study in a dissertation or thesis submitted as all or part of the assessment for a higher degree.
Technical report [Selective (show checkbox)]
An unpublished report, technical report or document providing details of a research study or studies without an ISSN or ISBN. (EEF evaluation reports are classified as technical reports.)
Book or book chapter [Selective (show checkbox)]
Conference paper [Selective (show checkbox)]
A report of a study presented at a research conference and subsequently made more widely available.
NB Peer-reviewed conference proceedings with an ISBN should still be classified as a conference paper.
Other (Please specify) [Selective (show checkbox)]
A report not classifiable according to the categories above (e.g. a website). Please add further details in the notes field.

Section 2 What is the research design and which methods were used? [Not selectable (no checkbox)]
What is the intervention name? [Selectable (show checkbox)]
Provide the name of the intervention, programme or approach as given in the report.
How is the intervention described? [Selectable (show checkbox)]
Brief summary of the intervention as provided in the report(s). Please include the rationale for impact on learning if given.
What are the intervention objectives? [Selectable (show checkbox)]
Please provide the specific objectives or aims of the intervention, programme or approach as provided in the report
Is there more than one treatment group? [Not selectable (no checkbox)]
Does the research design include more than one arm or contrast so that more than one estimate of the estimate of effect can be made from a different comparison group?
Yes (Please specify) [Selective (show checkbox)]
Describe the design and specify the other interventions or comparisons relative to the main intervention group.
No [Selective (show checkbox)]
Not specified or N/A [Selective (show checkbox)]
How were participants assigned? [Not selectable (no checkbox)]
How were the participants assigned or allocated to their group (i.e. treatment and control)?
Random (please specify) [Selective (show checkbox)]
Select this code where the report describes the participants' allocation to their group as random or pseudo-random (computer generated). Please add information to the notes about the randomisation details.
Non-random, but matched [Select (show checkbox)]
No randomisation, but matched at allocation prospectively to balance on attainment (or on attainment and other variables).
Non-random, not matched prior to treatment [Select (show checkbox)]
No random allocation and not matched prior to treatment. The nature and extent of any group differences in attainment at baseline is described and then accounted for in the analysis of impact (retrospective matching).
Unclear [Select (show checkbox)]
Please only select this code if there are no details about control and intervention allocation or if the information is so unclear as to prevent a reasonable inference.
Not assigned - Naturally occurring sample [Not selectable (no checkbox)]
   Retrospective Quasi Experimental Design (QED) [Select (show checkbox)]
   Regression discontinuity [Select (show checkbox)]
   (e.g. Policy change)
What was the level of assignment? [Not selectable (no checkbox)]
At which level was the assignment to intervention and control group conducted?
Individual [Select (show checkbox)]
The assignment was at the level of the individual student or pupil. No account was taken of class or school. All of the participants were included as a single group for allocation or randomisation.
Class [Select (show checkbox)]
The class or usual teaching group of the students was the level at which the intervention or approach was allocated. Intact classes were allocated or assigned to the intervention or approach (taking no account of school).
School - cluster [Select (show checkbox)]
The school was the level of assignment and all pupils in a single school are allocated to the same grouping (i.e. a single school would not include both intervention and control).
School - multi-site [Select (show checkbox)]
The school is the level of assignment, but each school contains both intervention and control groups. The design allows a within school comparison to be made.
Region or district [Select (show checkbox)]
The region or district is the level at which the assignment is made.
Not provided/ not available [Select (show checkbox)]
A description of the level of allocation is not provided or available in the report.
Not applicable [Select (show checkbox)]
How realistic was the study? [Not selectable (no checkbox)]
Was the intervention implemented under "real world" conditions? Factors to consider in assessing the 'ecological validity' include where the intervention took place (usual educational setting for educational approaches of this kind) and who taught or led the intervention with the pupils (e.g. did it involve usual teachers or other education professionals).
High ecological validity [Select (show checkbox)]
Select this code where the intervention or approach seems realistic for schools or teachers to adopt.
Any adaptations to enable the research to be conducted do not appear to affect the validity of the findings and implications for schools. Studies which take place in schools and are taught by the usual teachers or staff have high ecological validity.
Low ecological validity [Select (show checkbox)]
Select this code where the intervention or approach does not seem realistic or practical
for schools or teachers to adopt. Studies which take place in laboratory settings and are only taught by researchers have low ecological validity.

Unclear [Selectable (show checkbox)]
Select this code where there are no details about where the intervention took place or who was responsible for its delivery and it is not possible to infer sufficient details to make a judgement about the ecological validity of the study.

Section 3 Where did the study take place? [Not selectable (no checkbox)]
In which country/countries was the study carried out? (Select ALL that apply) [Not selectable (no checkbox)]

Countries which are recognised as sovereign states by the United Nations. If you think there is a country missing please ask!
USA [Selectable (show checkbox)]
UK (Select all that apply) [Selectable (show checkbox)]
   England [Selectable (show checkbox)]
   Northern Ireland [Selectable (show checkbox)]
   Scotland [Selectable (show checkbox)]
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Bangladesh [Selectable (show checkbox)]
Belarus [Selectable (show checkbox)]
Barbados [Selectable (show checkbox)]
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Bhutan [Selectable (show checkbox)]
Bosnia and Herzegovina [Selectable (show checkbox)]
Botswana [Selectable (show checkbox)]
Brazil [Selectable (show checkbox)]
Bolivia [Selectable (show checkbox)]
Brunei Darussalam [Selectable (show checkbox)]
Burkina Faso [Selectable (show checkbox)]
Bulgaria [Selectable (show checkbox)]
Cabo Verde [Selective (show checkbox)]
Cambodia [Selectable (show checkbox)]
Canada [Selectable (show checkbox)]
Cameroon [Selectable (show checkbox)]
Central African Republic [Selectable (show checkbox)]
Chad [Selectable (show checkbox)]
Chile [Selectable (show checkbox)]
Colombia [Selectable (show checkbox)]
Congo [Selectable (show checkbox)]
Costa Rica [Selectable (show checkbox)]
Côte d'Ivoire / Ivory Coast [Selective (show checkbox)]
Croatia [Selectable (show checkbox)]
China [Selectable (show checkbox)]
*If just Hong Kong, use Hong Kong code only, NOT China*
Cuba [Selective (show checkbox)]
Cyprus [Selective (show checkbox)]
Denmark [Selective (show checkbox)]
Czech Republic [Selective (show checkbox)]
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<td>West Indies (Use for Caribbean colonial dependencies)</td>
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_Cayman Islands (United Kingdom)_
_Anguilla (United Kingdom)_
_Antigua and Barbuda_
_Aruba (Netherlands)_
Bonaire (Netherlands)
British Virgin Islands (United Kingdom)
Curacao (Netherlands)
Guadeloupe (France)
Martinique (France)
Montserrat (United Kingdom)
Nueva Esparta (Venezuela)
Saba (Netherlands)
Saint Barthélemy (France)
Saint-Martin (France)
Sint Eustatius (Netherlands)
Sint Maarten (Netherlands)
United States Virgin Islands (United States)
Federal Dependencies of Venezuela (Venezuela)
Turks and Caicos Islands (United Kingdom)
Yemen [Selectable (show checkbox)]
Zambia [Selectable (show checkbox)]
Zimbabwe [Selectable (show checkbox)]

Is there more specific information about the location? [Not selectable (no checkbox)]
Further information on where the study took part (e.g. city, district, urban, suburban, rural etc.) as provided by the study.
Specific to the location or place [Selectable (show checkbox)]
Information about the specific place where the research was undertaken (e.g. name of the city, state, city or region)
Information about the type of location [Selectable (show checkbox)]
Information about what kind of location (e.g. urban, rural, suburban).
No information provided [Selectable (show checkbox)]

Please use this code if there is no further information about the specific location (place name) or the type of location (e.g. urban/ rural).
What is the educational setting (Select ALL that apply) [Not selectable (no checkbox)]
What is the type of educational setting that the students attend which is the focus of the intervention or approach?
Nursery school/pre-school [Selectable (show checkbox)]
A separate nursery school or pre-school setting or a nursery or early years class in a primary school.
The focus is on the type of setting or educational provision.
Primary/elementary school [Selectable (show checkbox)]
A school for children of normal school age (depending on the jurisdiction).
The focus is on the type of school or setting. Pupils will typically be between the ages of 5 and 11.
Middle school [Selectable (show checkbox)]
An intermediate school provided in some jurisdictions for pupils between their primary (or elementary) and secondary educational stages.
Secondary/High school [Selectable (show checkbox)]
A school for older pupils, after primary or elementary education (and after middle school where provided). Pupils will usually be between the ages of 11 and 18.
Residential/boarding school [Selectable (show checkbox)]
A school where pupils reside as well as study; boarding either by week or over a term.
Independent/private school [Selectable (show checkbox)]
Home [Selectable (show checkbox)]
Further education/junior or community college [Selectable (show checkbox)]
A formal educational setting for older secondary pupils. Students will usually be 16 or older, but still studying for school-level, vocational or professional qualifications (i.e. not higher education or leading to a Bachelor's degree)

Other educational setting (please specify) [Selectable (show checkbox)]
An educational setting which cannot be classified under one of the other definitions. Please provide details of the educational setting as given in the study (e.g. field centre, museum classroom, concert or rehearsal hall, public theatre, workplace training, etc.)

Outdoor adventure setting [Selectable (show checkbox)]
Educational activities taking place outdoors such as Outward Bound courses, sailing and kayaking or canoeing, camping, climbing or courses based at an outdoor education centre.

All studies classified under the Toolkit strand 'Outdoor adventure learning' should be included.
Field studies centres where the activities focus solely on school subjects like Geography or Biology should not be included (please use 'Other' for these and specify the type of setting).

No information provided [Selectable (show checkbox)]

Section 4 What is the sample of the study? [Not selectable (no checkbox)]
What is the overall sample analysed? [Selectable (show checkbox)]
What is the total number of participants in the data analysed (both intervention and control/comparison)? Please add additional details in the notes.
What is the gender of the students? [Not selectable (no checkbox)]
Please indicate the gender of the total sample.
Female only [Selectable (show checkbox)]
Male only [Selectable (show checkbox)]
Mixed gender [Selectable (show checkbox)]
Provide the percentage or number of female pupils in the study.
Please highlight the section or add details of where this can be found in the report.

No information provided [Selectable (show checkbox)]

What is the age of the students? (Select ALL that apply) [Not selectable (no checkbox)]
Please provide additional information if available (e.g. grade level(s), mean age, or mean and standard deviation).
3 [Selectable (show checkbox)]
4 [Selectable (show checkbox)]
5 [Selectable (show checkbox)]
6 [Selectable (show checkbox)]
7 [Selectable (show checkbox)]
8 [Selectable (show checkbox)]
9 [Selectable (show checkbox)]
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13 [Selectable (show checkbox)]
14 [Selectable (show checkbox)]
15 [Selectable (show checkbox)]
16 [Selectable (show checkbox)]
17 [Selectable (show checkbox)]
18 [Selectable (show checkbox)]
Cash Transfers  
Protocol for a Toolkit strand  

No information provided [Selectable (show checkbox)]

What is the proportion of low SES/FSM students in the sample? [Not selectable (no checkbox)]

What proportion of the students in the study are receiving free school meals (FSM) or reduced price lunches or are identified as being from a low socio-economic status? If possible, record this as a percentage. Please highlight or add further details as reported in the study.

FSM or low SES student percentage [Selectable (show checkbox)]

Please add the percentage of pupils in the sample who are are receiving free school meals (FSM) or reduced price lunches or are identified as being from a low socio-economic status background.

Further information about FSM or SES in the study sample. [Selectable (show checkbox)]

Please highlight any details provided in the study about the socio-economic status of the students involved in the research (such as eligibility for free or reduced price school meals or lunches).

No SES/FSM information provided [Selectable (show checkbox)]

Select this option if there is no information about the socio-economic status of the students involved in the research (such as eligibility for free or reduced price school meals or lunches).

Section 5 What was involved in the intervention? [Not selectable (no checkbox)]

Details about the intervention, approach or policy being evaluated.

What type of organisation was responsible for providing the intervention? [Not selectable (no checkbox)]

Please indicate what kind of organisation was responsible for the provision or management and organisation of the intervention?

School or group of schools [Selectable (show checkbox)]

Charity or voluntary organisation [Selectable (show checkbox)]

University/ researcher design [Selectable (show checkbox)]

Local education authority or district [Selectable (show checkbox)]

Local education authority or district (government or public funding)

Private or commercial company [Selectable (show checkbox)]

Other (please provide details) [Selectable (show checkbox)]

Was training for the intervention provided? [Not selectable (no checkbox)]

Was training provided to the delivery team as part of the preparation and support for the intervention? If so, who provided it?

Yes (Please specify) [Selectable (show checkbox)]

Please add details as provided in the report.

No [Selectable (show checkbox)]

Unclear/ Not specified [Selectable (show checkbox)]

Who is the focus of the intervention? (Select ALL that apply) [Not selectable (no checkbox)]

Who is the main focus of the intervention study? Although the interest of the Toolkit is on student outcomes, the focus of behavioural change may be on others in educational settings, such as teachers or parents.

NB All interventions must report outcomes on student's attainment.

Students [Selectable (show checkbox)]

The main focus of the intervention is on the behaviours, interactions or activities of the students or pupils. Others may be involved (such as in training to deliver or implement a
new approach), but the main aim is to change students' activities, behaviours and interactions to improve educational outcomes.

Teachers [Selectable (show checkbox)]
The main focus of the intervention is on the teachers and their behaviours, interactions and activities. Although the final outcome may be to improve students' attainment, the focus and study aims focus on the teachers as a clear or explicit part of the rationale.

Teaching assistants [Selectable (show checkbox)]
The focus of the intervention includes teaching assistants (and/or other para-professionals) and their behaviours, interactions and activities. Although the final outcome may be to improve students' attainment, the focus and study aims involve teaching assistants as part of the process.

Other education practitioners [Selectable (show checkbox)]
Non-teaching staff [Selectable (show checkbox)]
The main focus of the intervention is on the non-teaching staff in schools and their behaviours, interactions and activities. This includes all staff who would not normally have a teaching role (e.g. administrative staff, lunchtime supervisors, facilities management etc.). Although the final outcome may be to improve students' attainment, the focus and study aims include the non-teaching staff as part of the rationale.

Senior management [Selectable (show checkbox)]
The main focus of the intervention is on the senior management in schools (e.g. headteachers, deputy head teachers, heads of department) and their behaviours, interactions and activities. Although the final outcome may be to improve students' attainment, the focus and study aims include the senior management as part of the rationale.

Parents [Selectable (show checkbox)]
Parents or carers of students in the educational settings involved are involved because of their parental or caring responsibilities.

Other (Please specify) [Selectable (show checkbox)]

What was the main teaching or learning approach used for an intervention session?
Large group/class teaching (+6) [Selectable (show checkbox)]
A large group (more than 6 students) with a teacher or supporter of the intervention, typically in a classroom setting.

Small group/intensive support (3-5) [Selectable (show checkbox)]
Intensive small group provision by a teacher, teaching assistant or other supporter of the intervention in small group setting (3 - 5 participants in a group), sometimes in a separate teaching space or classroom.

Paired learning [Selectable (show checkbox)]
Two pupils either working together, or peer teaching each other

One to one [Selectable (show checkbox)]
One to one instruction where the teacher is not a peer, but a teacher, teaching assistant, volunteer or other education professional.

Student alone (self-administered) [Selectable (show checkbox)]
Pupils or students working through study materials independently and/or unsupervised.
Other (Explain in notes) [Selectable (show checkbox)]

Were any of the following involved in the intervention or approach? [Not selectable (no checkbox)]

Digital technology [Not selectable (no checkbox)]

*The main approach depends on the use of digital technology (e.g. laptops, software, internet) by pupils or teachers (e.g. interactive whiteboards).*

- Yes [Selectable (show checkbox)]
- No [Selectable (show checkbox)]

Parents or community volunteers [Not selectable (no checkbox)]

*Parents or community volunteers working with their children (or other pupils).*

- Yes [Selectable (show checkbox)]
- No [Selectable (show checkbox)]

When did the intervention take place? (Select ALL that apply) [Not selectable (no checkbox)]

*The intervention or approach takes place completely or mainly during regular school hours.*

- During regular school hours [Selectable (show checkbox)]
- Before/after school [Selectable (show checkbox)]
- Evenings and/or weekends [Selectable (show checkbox)]
- Summer/holiday period [Selectable (show checkbox)]

*The intervention or approach takes place completely or mainly before or immediately after normal school hours. This should mainly apply to activities taking place on school or normal educational settings.*

- When was the intervention delivered? [Not selectable (no checkbox)]
- When the intervention or approach takes place during evenings or weekends.
- Activities which take place immediately after school and at school (or in the same educational setting) should not be included.

- Summer/holiday period [Selectable (show checkbox)]

*Where the educational activity takes place as additional time in what would normally be a holiday period (e.g. summer holidays or other vacation times).*

Other (please specify) [Selectable (show checkbox)]

Unclear/ not specified [Selectable (show checkbox)]

*Use this code where there are no details provided of when the intervention was delivered and where the information provided does not allow a reasonable inference to be made about timing.*

*The usual inference for most interventions where the timing is not specified will be 'During regular school hours'. If this inference cannot reasonably be made please indicate in the notes the details in the report which produce the ambiguity or lack of clarity.*

Who was responsible for the teaching at the point of delivery? (Select ALL that apply) [Not selectable (no checkbox)]

*Please provide details (e.g. staff involved, training level provided, number/proportions of staff).*

- Research staff [Selectable (show checkbox)]

*Select this code where the intervention or approach was delivered largely or exclusively by researchers or the research team.*
Class teachers [Selectable (show checkbox)]
Select this code when the intervention or approach was taught or delivered by professional teachers as part of their usual teaching or wider professional activity.

Teaching assistants [Selectable (show checkbox)]
Select this code where the majority of the teaching or delivery of the intervention is undertaken by teaching assistants (or teacher’s aides, para-professionals, auxiliary teachers, nursery nurses in early years settings and other cognate terms). These will be staff usually employed by a school, but without a full teaching qualification.

Other school staff [Selectable (show checkbox)]
Staff employed by the school, but neither teachers nor teaching assistants (or those in similar paid roles). It includes administrative staff, lunch-time supervisors, facilities staff.

External teachers [Selectable (show checkbox)]
Teachers or other professional educational staff hired or employed by the research team or the delivery organisation.

Parents/carers [Selectable (show checkbox)]
Parents or carers whose main relationship with the intervention is through their parental or caring responsibilities. This includes where parents working with their own children, or working with other children in the school or educational setting that their own children attend.

Lay persons/volunteers [Selectable (show checkbox)]
Adults (over 18 years) involved as volunteers or undertaking unpaid work who provide the majority of the support to pupils or lead in the delivery of the intervention to students.

Peers [Selectable (show checkbox)]
Other students or pupils at the same school or educational setting as the intervention group; or at another local school (e.g. secondary students tutoring pupils at their own or their peers’ primary schools). Peers will normally be of similar age and socio-economic or cultural background.

University students tutoring primary school pupils would not be classified as ‘peers’.

Digital technology [Selectable (show checkbox)]
Include digital technology where the technology has a role in the educational activity, such as where automated feedback or marking is provided, or where it provides an explicit teaching role (intelligent tutoring or the use of explanatory videos) or where differentiated activities are offered or allocated automatically to learners. Incidental use of technology which is usually involved in the normal teaching and learning activities of the intervention group should not be included as this has already been recorded.

Unclear/not specified [Selectable (show checkbox)]
Use this code where there are no details provided of who or how the intervention was delivered or where the information provided does not allow a reasonable inference to be made.

What was the duration of the intervention? (Specify units) [Selectable (show checkbox)]
Duration of the intervention or approach (from beginning to end). Please specify units (e.g. months, weeks, days).
This may differ from the duration of the research project or evaluation which could involved pre- and post-testing periods.

What was the frequency of the intervention? [Selectable (show checkbox)]
What is the frequency of the intervention (as delivered)? e.g. daily, twice weekly, weekly monthly.
Cash Transfers
Protocol for a Toolkit strand

What is the length of intervention sessions? [Selectable (show checkbox)]

What is the length in minutes of a typical session?

Are implementation details and/or fidelity details provided? [Not selectable (no checkbox)]

Are details provided about how successfully the intervention was implemented or taken up? Please indicate what type of information by selecting the appropriate checkbox.
Qualitative [Selectable (show checkbox)]

Please select if qualitative details about the intervention or approach are provided, such as describing and issues or challenges about implementation, or comments on the training and/or implementation process.

Quantitative [Selectable (show checkbox)]

Please select if quantitative details about implementation are provided, such as number of schools or teachers trained, or number of sessions attended.

No implementation details provided. [Selectable (show checkbox)]

No details about the implementation process are provided.

Are the costs reported? [Not selectable (no checkbox)]

Are there any financial costs or details reported?

Yes (Please add details) [Selectable (show checkbox)]

If this option is selected, please add details as provide in the report(s).

No [Selectable (show checkbox)]

Who undertook the outcome evaluation? [Not selectable (no checkbox)]

The developer [Selectable (show checkbox)]

Default option

The researcher or developer evaluated their own programme or approach.

A different organization paid by developer [Selectable (show checkbox)]

The development team is different from the evaluation team but it is commissioned directly by the developer or researcher who developed the intervention approaches.

An organization commissioned independently to evaluate [Selectable (show checkbox)]

The research team is different from the evaluation team and commissioned independently (e.g. EEF reports).

Unclear/not stated [Selectable (show checkbox)]

There is insufficient information about the status of the evaluation research to indicate or infer how independent the evaluation is.

Is this an EEF evaluation? [Selectable (show checkbox)]

If the evaluation was funded by the Education Endowment Foundation please select.

Section 6 What kind of primary outcomes are reported? [Not selectable (no checkbox)]

What kind of tests were used? (Select ALL that apply) [Not selectable (no checkbox)]

What type(s) of test(s) were used to measure the intervention outcomes on learning at pupil/student level?

Standardised test (Please specify) [Selectable (show checkbox)]

A standardised test is administered and scored in a consistent way. The properties of the test are established through piloting on a group to determine the mean and spread of the scores for a particular target group. Standardised tests are usually named and the properties published.

Please add the name of the test(s) used, a brief description and any details reported.
Researcher developed test (Please add details) [Selectable (show checkbox)]
A test developed or designed for a specific research project. Please add any details as provided in the report(s).

School-developed test (Please add details) [Selectable (show checkbox)]
A test or examination developed and used by a school or schools involved in the research as part of their usual assessment approach. Please add any details as provided in the report(s).

International tests (Please specify) [Selectable (show checkbox)]
Tests used for international comparisons of student performance (e.g. PISA, TIMMS, PIRLS etc.). Please specify the name of the test.

Curriculum subjects tested (Select ALL that apply) [Not selectable (no checkbox)]
If the outcomes relate to the subjects of the school curriculum outcomes, record which subjects are included.

Literacy (first language) [Not selectable (no checkbox)]
Aspects of literacy including speaking and listening, reading and writing. Include study of literature when this is first language study.
- Reading comprehension [Selectable (show checkbox)]
  When a test provides different outcomes, e.g. TOWRE (Test of Word Reading Efficacy) provides word attack, word identification, & passage comprehension, choose passage comprehension as main outcome
- Decoding/phonics [Selectable (show checkbox)]
- Spelling [Selectable (show checkbox)]
- Reading other [Selectable (show checkbox)]
  e.g. phonics, reading fluency, vocabulary comprehension (receptive vocabulary)
  When a test provides different outcomes, e.g. TOWRE (Test of Word Reading Efficacy) provides word attack, word identification, & passage comprehension, choose passage comprehension as main outcome
- Speaking and listening/Oral language [Selectable (show checkbox)]
  Speaking and listening or oral language and communication outcomes, including vocabulary use (productive spoken vocabulary).
- Writing [Selectable (show checkbox)]
  A test of written language including quality, quantity and written vocabulary (range).

Mathematics [Selectable (show checkbox)]
Science [Selectable (show checkbox)]
Social studies [Selectable (show checkbox)]
Either integrated social studies courses or programmes or separate curriculum areas of social studies (e.g. history, geography, civics, sociology, economics or anthropology)
Arts [Selectable (show checkbox)]
  e.g. music, art
Languages [Selectable (show checkbox)]
Other curriculum test [Selectable (show checkbox)]
Please provide a description of the outcome as reported where it is a test of a school curriculum subject not included in the categories above (e.g. music, art, classics).

In addition to the primary educational attainment outcome, are there other outcomes reported? [Not selectable (no checkbox)]
Yes [Selectable (show checkbox)]
No [Selectable (show checkbox)]
If yes, which other outcomes are reported? [Not selectable (no checkbox)]
Cognitive outcomes measured (Please specify) [Selectable (show checkbox)]
If non-curricular cognitive outcomes are measured, please indicate and specify the outcomes (e.g. reasoning, memory, intelligence, etc.). Include the name of the test where possible (e.g. Raven’s Matrices, Stanford–Binet Intelligence Scales etc.).
Other types of student outcomes (Please specify) [Selectable (show checkbox)]
e.g. attendance, measures of behaviour, health status, non-cognitive attitudes/dispositions, etc. as assessed through a test or a survey.
Other participants (i.e. not students) outcomes (Please specify) [Selectable (show checkbox)]
If outcomes are measured and reported for other participants involved in the research (such as teachers or parents), please note which participants and which outcomes have been measured e.g. parental participation.
National test or examination (Please specify) [Selectable (show checkbox)]
A test or examination used in regional or national evaluations of student and school performance. These may be optional or compulsory, but are organised and/or administered by the regional or national education administration in a particular jurisdiction.
Appendix D: Quantitative data extraction codebook

Public version of the effect size data extraction tool used to code studies included in the Education Endowment Foundation's database of studies for the Toolkit.

- Section 1 What are the details of the study design? [Not selectable (no checkbox)]
  - What was the study design? [Not selectable (no checkbox)]
    - What type of study design is used for the evaluation of impact?
      - Individual RCT [Selectable (show checkbox)]
        - where individual participants are the unit of randomisation and no provision is made for clustering in the design
      - Cluster RCT [Selectable (show checkbox)]
        - where school or class is the unit of randomisation - i.e. all pupils in same school are in same group (between school/class) and where the class or school variance can be assigned to either intervention or control
      - Multisite RCT [Selectable (show checkbox)]
        - where both control and intervention pupils may be in the same class or school (within school/class) so that in the analysis the school or class level variance should be shared between intervention and control groups
      - Prospective QED [Selectable (show checkbox)]
        - quasi-experimental design – allocation/matching but no randomisation
      - Retrospective QED [Selectable (show checkbox)]
        - natural experiment with matching/ equivalence is reached through design/analysis
      - Interrupted time series QED [Selectable (show checkbox)]
        - Same group will be treated as control and comparison e.g. ABAB
      - Regression Discontinuity with randomisation [Selectable (show checkbox)]
        - Prospective regression discontinuity design where participants around the cut off are randomised to treatment or control.
      - Regression Discontinuity - not randomised [Selective (show checkbox)]
        - RD with non-random allocation (prospective matching to create equivalence)
      - Regression Continuity - naturally occurring [Selective (show checkbox)]
        - Regression Continuity design naturally occurring - retrospective matching.

    Exploits or manipulates a naturally occurring discontinuity to explore the causal effect of an educational intervention or approach. Regression discontinuity designs elicits the causal effects of interventions by assigning a cut off or threshold above or below which an intervention is assigned

- What is the number of schools involved in the study? [Not selectable (no checkbox)]
Cash Transfers
Protocol for a Toolkit strand

What is the number of schools involved in the intervention group(s)?
[Selectable (show checkbox)]
Please provide the number of schools involved in the intervention or versions of the intervention. Please only enter numeric data in the info box.

What is the number of schools involved in the control or comparison group?
[Selectable (show checkbox)]
Please provide the number of schools involved in the control group. Please only enter numeric data in the info box.

What is the total number of schools involved? [Selectable (show checkbox)]
Please record the total number of schools involved in the study. This will be the sum of intervention and control schools in a cluster randomised trial, but in a multisite trial, where there are control and intervention pupils in each school, it may be the same as for intervention/ control. Please only enter numeric data in the info box.

Not provided/ unclear / not applicable [Selectable (show checkbox)]
Please indicate if the number of schools involved in not provided, is unclear, or not applicable (such as in a Outdoor Education study).

What is the number of classes involved? [Selectable (show checkbox)]

What is the total number of classes involved in the intervention group?
[Selectable (show checkbox)]
Please provide the number of classes involved in the intervention or versions of the intervention. Please only enter numeric data in the info box.

What is the total number of classes involved in the control or comparison group? [Selectable (show checkbox)]
Please provide the number of classes involved in the control group. Please only enter numeric data in the info box.

What is the total number of classes involved? [Selectable (show checkbox)]
Please record the total number of classes involved in the study. Please only enter numeric data in the info box.

Not provided/ unclear / not applicable [Selectable (show checkbox)]
Please indicate if the number of classes involved in not provided, is unclear, or not applicable (such as in a Outdoor Education study).

Are details of randomisation provided? [Not selectable (no checkbox)]

Yes [Selectable (show checkbox)]
Please select if details are provided about how any randomisation was undertaken. Please highlight the relevant section of the study where possible.

Not applicable [Selectable (show checkbox)]
Please select if the study is not described as a randomised design (e.g. Quasi-experimental or naturally occurring experiment).
No / Unclear [Selectable (show checkbox)]

Please select if the study is described as randomised but no details are provided or these details are unclear. If the details are unclear, please highlight the relevant section of the report.

Section 2 How is the sample described? [Not selectable (no checkbox)]

Information about the sample size, groups and comparability.

What is the sample size for the intervention group? [Selectable (show checkbox)]

Record the initial or assigned sample size for the treatment group in the notes. Please enter numeric data only in the info box. This should be either the main counterfactual comparison of the intervention or approach for the Toolkit from this study, or the first reported.

What is the sample size for the control group? [Selectable (show checkbox)]

Record the initial or assigned sample size for the control group in the notes. Please enter numeric data only in the info box.

*What is the sample size for the second intervention group? [Selectable (show checkbox)]

Record the initial or assigned sample size for a second or alternative treatment group in the notes (*if there is one). This should be an equally valid comparison of the intervention or approach for the Toolkit as the first intervention group reported above. Please enter numeric data only in the info box.

*What is the sample size for the third intervention group? [Selectable (show checkbox)]

Record the initial or assigned sample size for a third or different treatment group in the notes (*if there is one). This should be an equally valid comparison of the intervention or approach for the Toolkit as the other intervention groups reported above. Please enter numeric data only in the info box.

Does the study report any group differences at baseline? [Not selectable (no checkbox)]

Is there quantitative information about the similarity of treatment and control groups at the beginning of the intervention?

Yes [Selectable (show checkbox)]

Please select if there is information provided about how comparable the intervention and control groups are at the beginning of the study in terms of the analysis. Please also highlight the relevant section of the text where this is possible.

No/Unclear [Selectable (show checkbox)]

Please select this option if there is no information about the baseline comparability of the groups or if this is unclear. If there is information, but it is unclear, please highlight the relevant section of the study, where this is possible.
• Is comparability taken into account in the analysis? [Not selectable (no checkbox)]

Are covariates in treatment and control groups assessed, and, if unbalanced, controlled in adjusted analysis?
• Yes [Selectable (show checkbox)]
• No [Selectable (show checkbox)]
• Unclear or details not provided [Selectable (show checkbox)]

• Is attrition or drop out reported? [Not selectable (no checkbox)]

If the sample recruited differs from the sample analysed, are the reasons for this reported? Please include details of attrition or drop-out or any pupils excluded from the analysis.
• Yes [Selectable (show checkbox)]
• No [Selectable (show checkbox)]
• Unclear (please add notes) [Selectable (show checkbox)]

Please check this option if the amount of attrition is unclear. Please also add notes about attrition if there is information about different groups or outcomes.

• What is the attrition in the treatment group? [Selectable (show checkbox)]

Number of drop-outs in the intervention group as a percentage of the n of the intervention group. Please enter numeric data only in the info box.

• Are the variables used for comparability reported? [Not selectable (no checkbox)]

Does the study state which variables are used to assess the comparability of the treatment and control groups?
• Yes [Selectable (show checkbox)]
• No [Selectable (show checkbox)]
• N/A [Selectable (show checkbox)]
• If yes, which variables are used for comparability? [Not selectable (no checkbox)]

Select the variables considered in assessment of similarity e.g. prior attainment, age, gender, SES, special educational needs, ethnicity.
• Educational attainment [Selectable (show checkbox)]

A measure of either direct (e.g. reading comprehension) or indirect (reasoning) educational performance or capability.
• Gender [Selectable (show checkbox)]
• Socio-economic status [Selectable (show checkbox)]
• Special educational needs [Selectable (show checkbox)]
• Other (please specify) [Selectable (show checkbox)]

• What is the total or overall percentage attrition? [Selectable (show checkbox)]

Please report the percentage of drop-outs or overall attrition in the whole sample.
This is the number of drop-outs divided by the initial sample x 100. Or you can calculate as the (initial sample minus the analysed sample) divided by the initial sample time 100. ((N-n)/N) x 100. Please add the % sign (e.g. 15.8%). For more information see: https://ies.ed.gov/ncee/wwc/Docs/OnlineTraining/wwc_training_m2.pdf

- Is clustering accounted for in the analysis? [Not selectable (no checkbox)]
  Does analysis take account of clustering? e.g. regression with school or cluster or MLM (multi-level modelling) or HLM (hierarchical linear modelling)?
  - Yes [Selectable (show checkbox)]
  - No [Selectable (show checkbox)]
  - Unclear [Selectable (show checkbox)]

- Section 3 Outcome details [Not selectable (no checkbox)]
  - Outcomes [Not selectable (no checkbox)]
    - Are descriptive statistics reported for the primary outcome? [Not selectable (no checkbox)]
      - Yes [Selectable (show checkbox)]
        - If yes, please add for the intervention* group [Not selectable (no checkbox)]
          Descriptive statistics for the intervention group. *If there is more than one intervention group please add this below:
          - Number (n) [Selectable (show checkbox)]
            What is the number for the intervention group in the data analysed for this outcome? Add numeric data only to the info box.
          - Pre-test mean [Selectable (show checkbox)]
            Please record the pre-test mean (if provided) for the intervention group for this outcome. Add numeric data only to the info box.
          - Pre-test standard deviation [Selectable (show checkbox)]
            Please record the pre-test standard deviation (if provided) for the intervention group for this outcome. Add numeric data only to the info box.
          - Post-test mean [Selectable (show checkbox)]
            Please report the post-test mean for this outcome for the intervention group (if provided) for this outcome. Add numeric data only to the info box.
          - Post test standard deviation [Selectable (show checkbox)]
            Please record the post-test standard deviation for the intervention group for this outcome (if provided). Add numeric data only to the info box.
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

- Gain score mean (if reported) [Selectable (show checkbox)]
  
  *Please add the gain score (pre-test to post test) mean for the intervention group. Add numeric data only to the info box.*

- Gain score standard deviation (if reported) [Selectable (show checkbox)]
  
  *Please add the gain score (pre-test to post test) standard deviation for the intervention group. Add numeric data only to the info box.*

- Any other information? [Selectable (show checkbox)]
  
  *Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)), or use to add notes about the numeric data in the categories above.*

  o If yes please add for the control group [Not selectable (no checkbox)]

  **Descriptive statistics for the intervention group**

  - Number (n) [Selectable (show checkbox)]
    
    *What is the number for the control group in the data analysed for this outcome? Add numeric data only to the info box.*

  - Pre-test mean [Selectable (show checkbox)]
    
    *Please record the pre-test mean (if provided) for the control group for this outcome. Add numeric data only to the info box.*

  - Pre-test standard deviation [Selective (show checkbox)]
    
    *Please record the pre-test standard deviation (if provided) for the control group for this outcome. Add numeric data only to the info box.*

  - Post-test mean [Selective (show checkbox)]
    
    *Please report the post-test mean for this outcome for the control group (if provided) for this outcome.*

  - Post test standard deviation [Selective (show checkbox)]
    
    *Please record the post-test standard deviation for the control group for this outcome (if provided).*

  - Gain score mean (if reported) [Selective (show checkbox)]
    
    *Add numeric data only to the info box.*

  - Gain score standard deviation (if reported) [Selective (show checkbox)]
    
    *Add numeric data only to the info box.*

  - Any other information? [Selective (show checkbox)]
    
    *Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)).*

  o If yes, please add for a second intervention* group (if needed) [Not selectable (no checkbox)]

  **Descriptive statistics for a second intervention group, if needed.**
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

- Number (n) [Selectable (show checkbox)]
  What is the number for the intervention group in the data analysed for this outcome? Add numeric data only to the info box.

- Pre-test mean [Selectable (show checkbox)]
  Please record the pre-test mean (if provided) for the intervention group for this outcome. Add numeric data only to the info box.

- Pre-test standard deviation [Selectable (show checkbox)]
  Please record the pre-test standard deviation (if provided) for the intervention group for this outcome. Add numeric data only to the info box.

- Post-test mean [Selectable (show checkbox)]
  Please report the post-test mean for this outcome for the intervention group (if provided) for this outcome. Add numeric data only to the info box.

- Post-test standard deviation [Selective (show checkbox)]
  Please record the post-test standard deviation for the intervention group for this outcome (if provided). Add numeric data only to the info box.

- Gain score mean (if reported) [Selective (show checkbox)]
  Please add the gain score (pre-test to post-test) mean for a second intervention group (if needed). Add numeric data only to the info box.

- Gain score standard deviation (if reported) [Selective (show checkbox)]
  Please add the gain score (pre-test to post-test) standard deviation for a second intervention group (if need). Add numeric data only to the info box.

- Any other information? [Selective (show checkbox)]
  Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)), or use to add notes about the numeric data in the categories above.

- If needed, please add for the control group [Not selectable (no checkbox)]
  Descriptive statistics for the second control group (if needed and if different from the primary outcome control)
  - Number (n) [Selectable (show checkbox)]
    What is the number for the control group in the data analysed for this outcome? Add numeric data only to the info box.
- Pre-test mean [Selectable (show checkbox)]
  Please record the pre-test mean (if provided) for the control group for this outcome. Add numeric data only to the info box.
- Pre-test standard deviation [Selectable (show checkbox)]
  Please record the pre-test standard deviation (if provided) for the control group for this outcome. Add numeric data only to the info box.
- Post-test mean [Selectable (show checkbox)]
  Please report the post-test mean for this outcome for the control group (if provided) for this outcome.
- Post test standard deviation [Selectable (show checkbox)]
  Please record the post-test standard deviation for the control group for this outcome (if provided).
- Gain score mean (if reported) [Selectable (show checkbox)]
  Please add the gain score (pre-test to post test) mean for this group (if need). Add numeric data only to the info box.
- Gain score standard deviation (if reported) [Selectable (show checkbox)]
  Please add the gain score (pre-test to post test) standard deviation for this group (if need). Add numeric data only to the info box.
- Any other information? [Selectable (show checkbox)]
  Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)).

  - If yes, please add for a third intervention* group (if needed) [Not selectable (no checkbox)]
    Descriptive statistics for a third intervention group, if needed.
    - Number (n) [Selectable (show checkbox)]
      What is the number for the intervention group in the data analysed for this outcome? Add numeric data only to the info box.
    - Pre-test mean [Selectable (show checkbox)]
      Please record the pre-test mean (if provided) for the intervention group for this outcome. Add numeric data only to the info box.
    - Pre-test standard deviation [Selectable (show checkbox)]
      Please record the pre-test standard deviation (if provided) for the intervention group for this outcome. Add numeric data only to the info box.
    - Post-test mean [Selectable (show checkbox)]
      Please report the post-test mean for this outcome for the
intervention group (if provided) for this outcome. Add numeric data only to the info box.

- Post test standard deviation [Selectable (show checkbox)]
  Please record the post-test standard deviation for the intervention group for this outcome (if provided). Add numeric data only to the info box.

- Gain score mean (if reported) [Selectable (show checkbox)]
  Please report the gain score (pre-test to post-test) mean for this outcome for a third intervention group (if needed) for this outcome. Add numeric data only to the info box.

- Gain score standard deviation (if reported) [Selectable (show checkbox)]
  Add numeric data only to the info box.

- Any other information? [Selectable (show checkbox)]
  Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)), or use to add notes about the numeric data in the categories above.

- If needed please add for a control group [Not selectable (no checkbox)]
  Descriptive statistics for a third control group (if needed and if different from the primary outcome control)
  - Number (n) [Selectable (show checkbox)]
    What is the number for the control group in the data analysed for this outcome? Add numeric data only to the info box.
  - Pre-test mean [Selectable (show checkbox)]
    Please record the pre-test mean (if provided) for the control group for this outcome. Add numeric data only to the info box.
  - Pre-test standard deviation [Selectable (show checkbox)]
    Please record the pre-test standard deviation (if provided) for the control group for this outcome. Add numeric data only to the info box.
  - Post-test mean [Selectable (show checkbox)]
    Please report the post-test mean for this outcome for the control group (if provided) for this outcome.
  - Post test standard deviation [Selectable (show checkbox)]
    Please record the post-test standard deviation for the control group for this outcome (if provided).
  - Gain score mean (if reported) [Selectable (show checkbox)]
    Add numeric data only to the info box.
• Gain score standard deviation (if reported) [Selectable (show checkbox)]
  Add numeric data only to the info box.
• Any other information? [Selective (show checkbox)]
  Please add any other statistical information reported about this outcome for the intervention group (e.g. standard error (SE)).
• No [Selective (show checkbox)]
• Is there follow up data? [Not selectable (no checkbox)]
  Please provide details of any assessment to measure long lasting effects (e.g. delayed post-test or long term follow up)
  • Yes [Selective (show checkbox)]
  • No [Selective (show checkbox)]
• Primary outcome [Outcome]
  Please indicate the primary outcome and enter additional data using the 'Outcomes' box.
  The primary outcome should be the outcome most relevant to the Toolkit strand(s) in terms of educational impact, such as standardised tests of reading or mathematics (for literacy or mathematics interventions) or national test or examination results. See handbook and supporting resources for further information.
• Secondary outcome(s) [Outcome]
  Please add secondary outcomes in this section where they represent a fair test of the impact of the evaluation at post test. This should not include delayed or follow up tests, or outcomes used to check the specificity of impact (e.g. a maths test use to control for intervention effect in a literacy intervention) or checking for transfer outcomes.
• SES/FSM outcome [Outcome]
  If a separate effect is reported for low socio-economic status or free or reduced price school meals pupils please add here.
• DO NOT USE [Not selectable (no checkbox)]
  Please do not mark this section. This section is completed in the 'Outcome specific code' screen.
• Outcome classification [Not selectable (no checkbox)]
  Outcome classifications for meta-analysis and meta-regressions. Please select all that apply
  • Sample: High achievers (select one from this group) [Outcome classification code]
    Classification of the students in the sample in relation to their level of academic attainment. Those described as high attainers or high 'ability';
usually those in the top half or the top third of the distribution (depending on classifications).

- **Sample: Low achievers [Outcome classification code]**
  
  *Classification of the students in the sample in relation to their level of academic attainment. Those described as low attainers or low 'ability'; usually those in the bottom half or the bottom third of the distribution (depending on classifications).*

- **Sample: Average [Outcome classification code]**
  
  *Classification of the students in the sample in relation to their level of academic attainment. Those described as performing at or around average attainment or of average 'ability'; usually those in the middle quartiles (depending on classifications).*

- **Sample: Exceptional [Outcome classification code]**
  
  *Students described as gifted and talented or of exceptional 'ability'. Usually those in the top 10 per cent of the distribution.*

- **Sample: All [Outcome classification code]**
  
  *Analysis applied to normal or typical sample of pupils. The whole range of attainment or 'ability' for the educational setting was included in the intervention.*

- **Test type: Standardised test (select one from this group) [Outcome classification code]**
  
  *A standardised test is administered and scored in a consistent way. The properties of the test are established through piloting on a group to determine the mean and spread of the scores for a particular target group. Standardised tests are usually named and the properties published.*

- **Test type: Researcher developed test [Outcome classification code]**
  
  *A test developed or designed for a specific research project*

- **Test type: School-developed test [Outcome classification code]**
  
  *A test or examination developed and used by a school or schools involved in the research as part of their usual assessment approach.*

- **Test type: National test [Outcome classification code]**
  
  *A test or examination used in regional or national evaluations of students and school performance. These may be optional or compulsory, but are organised and/or administered by the regional or national administration in a particular jurisdiction.*

- **Test type: International tests [Outcome classification code]**
  
  *Tests used for international comparisons of student performance (e.g. PISA, TIMMS, PIRLS, etc.)*

- **Analysis: Post-test unadjusted (select one from this group) [Outcome classification code]**
A simple comparison of the differences between control and intervention groups using only the post-test data, usually from an older randomised controlled trial (RCT) or where baseline equivalence has been established.

- **Analysis: Post-test adjusted for baseline attainment [Outcome classification code]**
  
  A post-test comparison where a measure of educational attainment at pre-test is controlled for in the analysis of the impact of the intervention or approach e.g. ANCOVA, OLS regression.

- **Analysis: Post-test adjusted for baseline attainment AND clustering [Outcome classification code]**
  
  A post-test comparison where a measure of educational attainment at pre-test is controlled for in the analysis of the impact of the intervention or approach and where the estimate is adjusted for clustering at class or school level (e.g. ANCOVA, MLM, OLS regression).

- **Analysis: Pre-post gain [Outcome classification code]**
  
  Outcome assessment based on the difference between an individual's pre-test and post test scores and the range of these difference (gain score or pre-post analysis).

- **Toolkit: Arts participation (select at least one Toolkit strand) [Outcome classification code]**
  
  Arts participation is defined as involvement in artistic and creative activities, such as dance, drama, music, painting, or sculpture. It can occur either as part of the curriculum or as extra-curricular activity. Participation may be organised as regular weekly or monthly activities, or more intensive programmes such as summer schools or residential courses. Whilst these activities have educational value in themselves, this Toolkit entry focuses on the benefits of arts participation for core academic attainment.

- **Toolkit: Aspiration interventions [Outcome classification code]**
  
  By aspirations we mean the things children and young people hope to achieve for themselves in the future. To meet their aspirations about careers, university, and further education, pupils often require good educational outcomes. Raising aspirations is therefore often believed to incentivise improved attainment.

- **Toolkit: Behaviour interventions [Outcome classification code]**
  
  Behaviour interventions seek to improve attainment by reducing challenging behaviour. This entry covers interventions aimed at reducing a variety of behaviours, from low-level disruption to general anti-social activities, aggression, violence, bullying, and substance abuse. The interventions themselves can be split into three broad categories:
1. Approaches to developing a positive school ethos or improving discipline across the whole school which also aim to support greater engagement in learning.

2. Universal programmes which seek to improve behaviour and generally take place in the classroom.

3. More specialised programmes which are targeted at students with specific behavioural issues.

- **Toolkit: Block scheduling [Outcome classification code]**

  Block scheduling is an approach to school timetabling in secondary schools. It typically means that pupils have fewer classes (4-5) per day, for a longer period of time (70-90 minutes). The three main types of block schedules found in the research are:

  - **4x4 block scheduling:** 4 blocks of extended (80–90 minute) classes each day, covering the same 4 subjects each day. Students take 4 subjects over 1 term, and 4 different subjects in the following term. A/B block scheduling: 3 or 4 blocks of extended (70–90 minute) classes each day, covering the same 3 or 4 subjects on alternating days. Students take 6 or 8 subjects each term. Hybrid: a hybrid of traditional models and 3/4-class-per-day approaches. Students have 5 classes per day, of between 60 and 90 minutes.

- **Toolkit: Built environment [Outcome classification code]**

  Changing the physical conditions or built environment of the learning setting, either by moving to a new school building or seeking to improve the structure, air quality, noise, light, or temperature of an existing building or classroom.

- **Toolkit: Collaborative learning [Outcome classification code]**

  A collaborative (or cooperative) learning approach involves pupils working together on activities or learning tasks in a group small enough for everyone to participate on a collective task that has been clearly assigned. Pupils in the group may work on separate tasks contributing to a common overall outcome, or work together on a shared task. Some collaborative learning approaches put mixed ability teams or groups to work in competition with each other in order to drive more effective collaboration. There is a very wide range of approaches to collaborative and cooperative learning involving different kinds of organisation and tasks. Peer tutoring can also be considered as a type of collaborative learning, but in the Toolkit it is reviewed as a separate topic.

- **Toolkit: Digital technology [Outcome classification code]**

  The use of digital technologies to support learning. Approaches in this area are very varied, but a simple split can be made between:
Programmes for students, where learners use technology in problem solving or more open-ended learning, and Technology for teachers such as interactive whiteboards or learning platforms which may be used by the teachers, or where the technology may provide instruction more directly.

- Toolkit: Early years intervention [Outcome classification code]
  Early years or early childhood interventions are approaches that aim to ensure that young children have educationally based pre-school or nursery experiences which prepare for school and academic success, usually through additional nursery or pre-school provision. Many of the researched programmes and approaches focus on disadvantaged children. Some also offer parental support. The research summarised here looks at general or multi-component programmes and approaches.

- Toolkit: Extending school time [Outcome classification code]
  This summary focuses on extending core teaching and learning time in schools and the use of targeted before and after school programmes. Other approaches to increasing learning time are included in other sections of the Toolkit, such as Homework, Early years intervention and Summer schools.
  
  The research focuses on three main approaches to extending teaching and learning time in schools:
  extending the length of the school year;
  extending the length of the school day; and
  providing additional time for targeted groups of pupils, particularly disadvantaged or low-attaining pupils, either before or after school.

- Toolkit: Feedback [Outcome classification code]
  Feedback is information given to the learner and/or the teacher about the learner’s performance relative to learning goals. It should aim towards (and be capable of producing) improvement in students’ learning. Feedback redirects or refocuses either the teacher’s or the learner’s actions to achieve a goal, by aligning effort and activity with an outcome. It can be about the learning activity itself, about the process of activity, about the student’s management of their learning or self-regulation or (the least effective) about them as individuals. This feedback can be verbal, written, or can be given through tests or via digital technology. It can come from a teacher or someone taking a teaching role, or from peers.

- Toolkit: Homework [Outcome classification code]
  Homework refers to tasks given to pupils by their teachers to be completed outside of usual lessons. Common homework activities in primary schools tend to be reading or practising spelling and number facts, but may also
include more extended activities to develop inquiry skills or more directed and focused work such as revision for tests which is more similar to homework set in secondary schools. Other homework activities may include reading or preparing for work to be done in class, or practising and completing tasks or activities already taught or started in lessons, as well as revision for exams.

- Toolkit: Individualised instruction [Outcome classification code]
  Individualised instruction involves different tasks for each learner and support at the individual level. It is based on the idea that all learners have different needs, and that therefore an approach that is personally tailored — particularly in terms of the activities that pupils undertake and the pace at which they progress through the curriculum — will be more effective. Various models of individualised instruction have been tried over the years in education, particularly in subjects like mathematics where pupils can have individual sets of activities which they complete, often largely independently. More recently, digital technologies have been employed to facilitate individual activities and feedback.

- Toolkit: Learning styles [Outcome classification code]
  The idea underpinning learning styles is that individuals all have a particular approach to or style of learning. The theory is that learning will therefore be more effective or more efficient if pupils are taught using the specific style or approach that has been identified as their learning 'style'. For example, pupils categorised as having a 'listening' learning style, could be taught more through storytelling and discussion and less through traditional written exercises.

- Toolkit: Mastery learning [Outcome classification code]
  Mastery learning breaks subject matter and learning content into units with clearly specified objectives which are pursued until they are achieved. Learners work through each block of content in a series of sequential steps. Students must demonstrate a high level of success on tests, typically at about the 80% level, before progressing to new content. Mastery learning can be contrasted with other approaches which require pupils to move through the curriculum at a pre-determined pace. Teachers seek to avoid unnecessary repetition by regularly assessing knowledge and skills. Those who do not reach the required level are provided with additional tuition, peer support, small group discussions, or homework so that they can reach the expected level.

- Toolkit: Metacognition and self-regulation [Outcome classification code]
  Metacognition and self-regulation approaches aim to help pupils think
about their own learning more explicitly, often by teaching them specific strategies for planning, monitoring and evaluating their learning. Interventions are usually designed to give pupils a repertoire of strategies to choose from and the skills to select the most suitable strategy for a given learning task. Self-regulated learning can be broken into three essential components: cognition - the mental process involved in knowing, understanding, and learning; metacognition - often defined as 'learning to learn'; and motivation - willingness to engage our metacognitive and cognitive skills.

- Toolkit: Mentoring [Outcome classification code]
  Mentoring in education involves pairing young people with an older peer or volunteer, who acts as a positive role model. In general, mentoring aims to build confidence, develop resilience and character, or raise aspirations, rather than to deliver specific academic skills or knowledge. Mentors typically build relationships with young people by meeting with them one to one for about an hour a week over a sustained period, either during school, at the end of the school day, or at weekends. Activities vary between different mentoring programmes, sometimes including direct academic support with homework or other school tasks. For programmes focused primarily on direct academic support see One to one tuition and Peer tutoring. Mentoring has increasingly been offered to young people who are deemed to be hard to reach or at risk of educational failure or exclusion.

- Toolkit: One to one tuition [Outcome classification code]
  One to one tuition involves a teacher, teaching assistant or other adult giving a pupil intensive individual support. It may happen outside of normal lessons as additional teaching – for example as part of Extending school time or a Summer school – or as a replacement for other lessons.

- Toolkit: Oral language interventions [Outcome classification code]
  Oral language interventions emphasise the importance of spoken language and verbal interaction in the classroom. They are based on the idea that comprehension and reading skills benefit from explicit discussion of either the content or processes of learning, or both. Oral language approaches include:
  Targeted reading aloud and discussing books with young children
  Explicitly extending pupils’ spoken vocabulary
  The use of structured questioning to develop reading comprehension. All of the approaches reviewed in this section support learners’ articulation of ideas and spoken expression, such as Thinking Together or Philosophy for
Children. Oral language interventions therefore have some similarity to approaches based on metacognition, which make talk about learning explicit in classrooms, and to Collaborative Learning approaches, which promote pupils’ talk and interaction in groups.

- Toolkit: Outdoor adventure learning [Outcome classification code]
  Outdoor adventure learning typically involves outdoor experiences, such as climbing or mountaineering; survival, ropes or assault courses; or outdoor sports, such as orienteering, sailing and canoeing. These can be organised as intensive residential courses or shorter courses run in schools or local outdoor centers.
  Adventure education usually involves collaborative learning experiences with a high level of physical (and often emotional) challenge. Practical problem-solving, explicit reflection and discussion of thinking and emotion (see also Metacognition and self-regulation) may also be involved.
  Adventure learning interventions typically do not include a formal academic component, so this summary does not include forest schools or field trips.

- Toolkit: Parental engagement [Outcome classification code]
  We define parental engagement as the involvement of parents in supporting their children’s academic learning. It includes:
  1. approaches and programmes which aim to develop parental skills such as literacy or IT skills;
  2. general approaches which encourage parents to support their children with, for example reading or homework;
  3. the involvement of parents in their children’s learning activities; and
  4. more intensive programmes for families in crisis.

- Toolkit: Peer Tutoring [Outcome classification code]
  Peer tutoring includes a range of approaches in which learners work in pairs or small groups to provide each other with explicit teaching support.
  In cross-age tutoring, an older learner takes the tutoring role and is paired with a younger tutee or tutees. Peer-assisted learning is a structured approach for mathematics and reading with sessions of 25-35 minutes two or three times a week. In reciprocal peer tutoring, learners alternate between the role of tutor and tutee. The common characteristic is that learners take on responsibility for aspects of teaching and for evaluating their success. Peer assessment involves the peer tutor providing feedback to children relating to their performance and can have different forms such as reinforcing or correcting aspects of learning.
  Peers are defined as other students or pupils at the same school or educational setting as the intervention group; or at another local school.
(e.g. secondary students tutoring pupils at their own or their peers' primary schools). Peers will normally be of similar age and socio-economic or cultural background. University students tutoring primary school pupils would not usually be classified as 'peers'.

- Toolkit: Performance pay [Outcome classification code]
  Performance pay schemes aim to create a direct link between teacher pay or bonuses, and the performance of their class in order to incentivise better teaching and so improve outcomes. A distinction can be drawn between awards, where improved performance leads to a higher permanent salary, and payment by results, where teachers get a bonus for higher test scores. Approaches differ in how performance is measured and how closely those measures are linked to outcomes for learners. In some schemes, students’ test outcomes are the sole factor used to determine performance pay awards. In others, performance judgements can also include information from lesson observations or feedback from pupils, or be left to the discretion of the headteacher.

- Toolkit: Phonics [Outcome classification code]
  Phonics is an approach to teaching reading, and some aspects of writing, by developing learners’ phonemic awareness. This involves the skills of hearing, identifying and using phonemes or sound patterns in English. The aim is to systematically teach learners the relationship between these sounds and the written spelling patterns, or graphemes, which represent them. Phonics emphasises the skills of decoding new words by sounding them out and combining or ‘blending’ the sound-spelling patterns.

- Toolkit: Reading comprehension strategies [Outcome classification code]
  Reading comprehension strategies focus on the learners’ understanding of written text. Pupils are taught a range of techniques which enable them to comprehend the meaning of what they read. These can include: inferring meaning from context; summarising or identifying key points; using graphic or semantic organisers; developing questioning strategies; and monitoring their own comprehension and identifying difficulties themselves (see also ‘Metacognition and self-regulation’).

- Toolkit: Reducing class size [Outcome classification code]
  As the size of a class or teaching group gets smaller it is suggested that the range of approaches a teacher can employ and the amount of attention each student will receive will increase, thereby improving outcomes for pupils.

- Toolkit: Repeating a year [Outcome classification code]
  Pupils who do not reach a given standard of learning at the end of a year
are required to repeat the year by joining a class of younger students the following academic year. This is also known as “grade retention”, “non-promotion” or “failing a grade”. For students at secondary school level, repeating a year is usually limited to the particular subject or classes that a student has not passed.

Repeating a year is very rare in the UK but is relatively common in the USA where the No Child Left Behind Act (2002) recommended that students be required to demonstrate a set standard of achievement before progressing to the next grade level. Students can also be required to repeat a year in some European countries including Spain, France and Germany. In some countries, such as Finland, pupils can repeat a year in exceptional circumstances, but this decision is made collectively by teachers, parents and the student rather than on the basis of end of year testing.

- Toolkit: School uniform [Outcome classification code]
  Schools identify clothing considered appropriate for pupils to wear in school, and usually specify the style and colour. Schools vary as to how strictly a uniform policy is enforced.

- Toolkit: Setting or streaming [Outcome classification code]
  Pupils with similar levels of current attainment are grouped together either for specific lessons on a regular basis (setting or regrouping), or as a whole class (streaming or tracking). The assumption is that it will be possible to teach more effectively or more efficiently with a narrower range of attainment in a class.

- Toolkit: Small Group Tuition [Outcome classification code]
  Small group tuition is defined as one teacher or professional educator working with two, three, four, or five pupils. This arrangement enables the teacher to focus exclusively on a small number of learners, usually on their own in a separate classroom or working area. Intensive tuition in small groups is often provided to support lower attaining learners or those who are falling behind, but it can also be used as a more general strategy to ensure effective progress, or to teach challenging topics or skills.

- Toolkit: Social and emotional learning [Outcome classification code]
  Interventions which target social and emotional learning (SEL) seek to improve attainment by improving the social and emotional dimensions of learning, as opposed to focusing directly on the academic or cognitive elements of learning. SEL interventions might focus on the ways in which students work with (and alongside) their peers, teachers, family or community. Three broad categories of SEL interventions can be identified:

1. Universal programmes which generally take place in the classroom;
2. More specialised programmes which are targeted at students with particular social or emotional problems;

3. School-level approaches to developing a positive school ethos which also aim to support greater engagement in learning.

- **Toolkit: Sports participation [Outcome classification code]**
  Sports participation interventions engage pupils in sports as a means to increasing educational engagement and attainment. This might be through after-school activities or a programme organised by a local sporting club or association. Sometimes sporting activity is used to encourage young people to engage in additional learning activities, such as football training at a local football club combined with study skills, ICT, literacy or mathematics lessons.

- **Toolkit: Summer schools [Outcome classification code]**
  Summer schools are lessons or classes during the summer holidays, and are often designed as catch-up programmes. Some summer schools do not have an academic focus and concentrate on sports or other non-academic activities. Others may have a specific focus, such as pupils at the transition from primary to secondary school, or advanced classes to prepare high-attaining pupils for university.

- **Toolkit: Teaching assistants [Outcome classification code]**
  Teaching assistants (also known as TAs or classroom support assistants) are adults who support teachers in the classroom. Teaching assistants’ duties can vary widely from school to school, ranging from providing administrative and classroom support to providing targeted academic support to individual pupils or small groups.
  
  Cognate terms: support staff; adult support staff; teaching assistants; associate staff; classroom assistants; classroom support assistant; auxiliary teachers; teacher’s aide; education paraprofessional; nursery nurse (in early years’ settings)

- **CEDIL: Cash Transfers [Outcome classification code]**
  Studies that report on either conditional or unconditional cash transfers directly to households or female heads of households.

- **CEDIL: Menstrual Hygiene Intervention [Outcome classification code]**
  Menstrual hygiene management interventions within schools or learning environments.

- **Comparison [Not selectable (no checkbox)]**
  *Please do not mark this section. This section is completed in the 'Outcomes specific code' screen.*

- **With active control [Comparison]**
  *i.e. there is control for novelty/ an introduced new treatment*
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

- With business as usual [Comparison]
  *i.e. comparison group having usual learning experience*
- With no equivalent teaching [Comparison]
  *i.e. additional learning time / no treatment, such as in a Summer School intervention or a Before or After school club*
- Intervention outcome measure [Not selectable (no checkbox)]
  *Type or focus of educational test used to measure the outcome of the impact of the intervention or approach.*
  - Literacy: reading comprehension [Intervention]
    *e.g. passage comprehension*
  - Literacy: decoding/phonics [Intervention]
  - Literacy: spelling [Intervention]
  - Literacy: reading other [Intervention]
    *Other reading outcomes (e.g. reading fluency, vocabulary comprehension (receptive vocabulary))*
  - Literacy: speaking and listening/oral language [Intervention]
  - Literacy: writing [Intervention]
  - Mathematics [Intervention]
  - Science [Intervention]
  - Social Studies [Intervention]
    *e.g. history, geography, economics*
  - Arts [Intervention]
    *e.g. music, art*
  - Languages [Intervention]
    *Second or foreign languages, based on the dominant language of instruction in the educational setting.*
  - Curriculum: other [Intervention]
    *Other curriculum outcomes not included in the above options (please specify)*
  - Combined subjects [Intervention]
    *Where the study combines two or more test outcomes from different subjects to provide an overall measure of educational progress (e.g. KS2 English and mathematics or multiple GCSE subjects.)*
  - Cognitive: reasoning [Intervention]
    *Tests of verbal, analogical or visual reasoning, including IQ or other 'intelligence' tests.*

Cognitive: other [Intervention]
*Other tests of cognitive performance such as working memory or perception.*
Appendix E: CEDIL educational outcome data extraction (v 1.0 October 2020)

Draft of the effect size data extraction tool used to code for additional educational outcomes for studies included in the CEDIL database.

- Section 1: Are there any additional educational outcomes reported? [Selectable (Checkbox)]
  Additional educational outcomes are reported outcomes for students that are not specifically related to attainment, but are still relevant for education e.g. school attendance, school enrolment, school drop-out, absenteeism, time in school, grade completion, grade retention, school completion, return to education
  - Yes
  - No

- What additional educational outcome(s) are reported? (select all that apply) [Selectable (Checkbox)]
  Additional educational outcomes are reported outcomes for students that are not specifically related to attainment, but are still relevant for education e.g. school attendance, school enrolment, school drop-out, absenteeism, time in school, grade completion, grade retention, school completion, return to education
  - Enrolment
  - Return to education
  - Attendance
  - Absenteeism
  - Time in school
  - Drop-out
  - Pupil retention
  - Grade completion
  - School graduation
  - Next grade progression
  - Grade repetition
  - Other
  - None reported

- If school completion is recorded, please record to what ISCED level the student has completed their education (please select one) [Selectable (Checkbox)]
  - Early childhood education (ISCED-P level 0)
    Early childhood education provides learning and educational activities with a holistic approach to support children’s early cognitive, physical, social and emotional development and introduce young children to organized instruction
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

outside of the family context to develop some of the skills needed for academic readiness and to prepare them for entry into primary education.

- **Formal education.**
  
  Education that is institutionalised, intentional and planned through public organizations and recognised private bodies and – in their totality – constitute the formal education system of a country. Formal education programmes are thus recognised as such by the relevant national education authorities or equivalent authorities, e.g. any other institution in cooperation with the national or sub-national education authorities. Formal education consists mostly of initial education. Vocational education, special needs education and some parts of adult education are often recognised as being part of the formal education system.

- **General education.**
  
  Education programmes that are designed to develop learners’ general knowledge, skills and competencies, as well as literacy and numeracy skills, often to prepare students for more advanced education programmes at the same or higher ISCED levels and to lay the foundation for lifelong learning. General education programmes are typically school- or college-based. General education includes education programmes that are designed to prepare students for entry into vocational education but do not prepare for employment in a particular occupation, trade, or class of occupations or trades, nor lead directly to a labour market-relevant qualification.

- **Grade.**
  
  A specific stage of instruction in initial education usually covered during an academic year. Students in the same grade are usually of similar age. This is also referred to as a ‘class’, ‘cohort’ or ‘year’.

- **Lower secondary education (ISCED level 2).**
  
  Programmes at ISCED level 2, or lower secondary education, are typically designed to build on the learning outcomes from ISCED level 1. Usually, the educational aim is to lay the foundation for lifelong learning and human development upon which education systems may then expand further educational opportunities. Programmes at this level are usually organized around a more subject-oriented curriculum, introducing theoretical concepts across a broad range of subjects.

- **Primary education (ISCED level 1).**
  
  Primary education provides learning and educational activities typically designed to provide students with fundamental skills in reading, writing and mathematics (i.e. literacy and numeracy) and establish a solid foundation for learning and understanding core areas of knowledge and personal development, preparing for lower secondary education. It focuses on learning at a basic level of complexity with little, if any, specialisation.

- **Secondary education (ISCED levels 2 and 3).**
  
  Secondary education provides learning and educational activities building on primary education and preparing for labour market entry, postsecondary non-tertiary education and tertiary education. Broadly speaking, secondary education aims at learning at an intermediate level of complexity. ISCED distinguishes between lower and upper secondary education.

- **Upper secondary education (ISCED level 3).**
- Programmes at ISCED level 3, or upper secondary education, are typically designed to complete secondary education in preparation for tertiary education or provide skills relevant to employment, or both. Programmes at this level offer students more varied, specialised and in-depth instruction than programmes at lower secondary education (ISCED level 2). They are more differentiated, with an increased range of options and streams available.

- Both lower and upper secondary are captured in the code for ‘secondary’ and ‘middle’ school.

  - Section Two: Are outcomes reported for underserved populations? [Selectable (Checkbox)] Underserved populations may include those with disabilities or ethnic minorities. Please give details of population in Info box
  - Yes
  - No

  - [Underserved Outcome] If a separate effect is reported for pupils identified as members of an underserved population, please add here. This should include outcomes not specifically related to attainment, but those that are still relevant for education e.g. school attendance, school enrolment, school drop-out, absenteeism, time in school, grade completion, grade retention, school completion, return to education

  - Section Three: Are outcomes reported for teachers? [Selectable (Checkbox)] Outcomes reported for teachers.
  - Yes
  - No

  - What teacher outcome(s) are reported? (select all that apply) [Selectable (Checkbox)] If outcomes are reported for teachers, please add here.
  - Attendance
  - Performance
  - Other
  - None reported

- DO NOT USE [Not selectable (no checkbox)]
  Please do not mark this section. This section is completed in the ‘Outcome specific code’ screen.

- Outcome classification [Not selectable (no checkbox)] Outcome classifications for meta-analysis and meta-regressions. Please select all that apply
  - Sample: High achievers (select one from this group) [Outcome classification code] Classification of the students in the sample in relation to their level of academic attainment. Those described as high attainers or high 'ability';
usually those in the top half or the top third of the distribution (depending on classifications).

- Sample: Low achievers [Outcome classification code]
  Classification of the students in the sample in relation to their level of academic attainment. Those described as low attainers or low 'ability'; usually those in the bottom half or the bottom third of the distribution (depending on classifications).

- Sample: Average [Outcome classification code]
  Classification of the students in the sample in relation to their level of academic attainment. Those described as performing at or around average attainment or of average 'ability'; usually those in the middle quartiles (depending on classifications).

- Sample: Exceptional [Outcome classification code]
  Students described as gifted and talented or of exceptional 'ability'. Usually those in the top 10 per cent of the distribution.

- Sample: All [Outcome classification code]
  Analysis applied to normal or typical sample of pupils. The whole range of attainment or 'ability' for the educational setting was included in the intervention.

- Analysis: Post-test unadjusted (select one from this group) [Outcome classification code]
  A simple comparison of the differences between control and intervention groups using only the post-test data, usually from an older randomised controlled trial (RCT) or where baseline equivalence has been established.

- Analysis: Post-test adjusted for baseline [Outcome classification code]
  A post-test comparison where a measure at pre-test is controlled for in the analysis of the impact of the intervention or approach e.g. ANCOVA, OLS regression.

- Analysis: Post-test adjusted for baseline AND clustering [Outcome classification code]
  A post-test comparison where a measure at pre-test is controlled for in the analysis of the impact of the intervention or approach and where the estimate is adjusted for clustering at class or school level (e.g. ANCOVA, MLM, OLS regression).

- Analysis: Pre-post gain [Outcome classification code]
  Outcome assessment based on the difference between an individual's pre-test and post test scores and the range of these difference (gain score or pre-post analysis).
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

- CEDIL: Cash Transfers [Outcome classification code]
  
  Studies that report on either conditional or unconditional cash transfers directly to households or female heads of households.

- CEDIL: Menstrual Hygiene Intervention [Outcome classification code]
  
  Menstrual hygiene management interventions within schools or learning environments.

- Comparison [Not selectable (no checkbox)]
  Please do not mark this section. This section is completed in the 'Outcomes specific code' screen.

  • With active control [Comparison]
    
    i.e. there is control for novelty/ an introduced new treatment

  • With business as usual [Comparison]
    
    i.e. comparison group having usual learning experience

  • With no equivalent teaching [Comparison]
    
    i.e. additional learning time / no treatment, such as in a Summer School intervention or a Before or After school club

- Educational outcome measure [Not selectable (no checkbox)]
  
  Type or focus of educational outcome used to measure the impact of the intervention or approach.

  • Enrolment: School enrolment
  • Enrolment: Return to education
  • Attendance: Attendance rate
  • Attendance: Absence rate
  • Attendance: Time in school
  • Drop-out: Drop-out rate
  • Drop-out: Retention rate
  • Completion: Grade completion
  • Completion: School completion
  • Progression: Next grade
  • Progression: Grade repetition
  • Other [Intervention]
    
    Other educational outcomes not included in the above options (please specify)

  • Combined outcomes [Intervention]
    
    Where the study combines two or more educational outcomes to provide an overall measure of effect
Appendix F: Strand specific coding tool for cash transfers

School target of cash transfer program
- Nursery/Kindergarten
- Primary only
- Secondary only
- Primary and secondary
- Not reported

Eligibility for cash transfer program
- Village/neighbourhood income
- Household income
- Target population (details in info box)
- Not reported

Means testing for cash transfer program
- Means testing? Y/N/Not reported
- If means testing was conducted, what was the threshold?

Recipient of cash transfer
- Mother or female head of household
- Father or male head of household
- Parent or head of household
- Student (or student and parent/guardian)
- Not reported

Monthly average amount of cash transfer per child ($ or domestic currency)
- Primary (report in info box)
- Secondary (report in info box)
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

Not reported

Limits on total amount of family transfer
No
Yes, maximum amount per family
Yes, maximum number of beneficiaries
Not reported

Variation of cash transfer amount
None (flat transfer)
Gender
Age
Grade
Other
Not reported

Regularity of cash transfer
Monthly
Bi-monthly
Quarterly/Trimesterly
Biannually
Annually
Not reported

Duration of cash transfer program

Primary condition of cash transfer program
School enrolment
Cash Transfers
Protocol for a Toolkit strand

School attendance
School enrolment and attendance
School completion
Academic achievement
Grade promotion
Other
No conditions
Not reported

Additional condition of cash transfer program
School enrolment
School attendance
School enrolment and attendance
School completion
Academic achievement
Grade promotion
Other
No additional conditions
Not reported

Health conditionality component
Yes
No
Not reported

Health conditions of cash transfer
Student attendance at health check-ups
Student immunizations up-to-date
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

Health visits for pregnant and breastfeeding women
Mother attendance at health education workshops
Other
Not reported

Monitoring of cash transfer program
School enrolment
School attendance
School completion
Academic achievement
Grade promotion
Other
No monitoring
Not reported

Verification of conditions
School enrolment
School attendance
School completion
Academic achievement
Grade promotion
Health attendance
Other
No verification
Not reported

Minimum school attendance requirement
Yes
Cash Transfers
Protocol for a Toolkit strand

Template last updated: February 2020

No
Not reported

% school attendance required
75%
80%
85%
90%
95%

Enforcement
Attendance at school
Enrolment at school
Other
No enforcement
Not reported

Supply incentives for education
Transfer unaccompanied by supply-side intervention
Transfer complemented by supply incentive to school
Transfer complemented by supply incentive to teachers
Not reported

Savings Component
Yes
No
Not reported
**Cash Transfers**  
Protocol for a Toolkit strand

Template last updated: February 2020

**Economic Outcomes**

Yes (household income)

No

Not reported

**Type of cash transfer program**

Categories developed by Baird

0 – Program is unconditional and not targeted at children e.g. pension transfer

1 – Unconditional program with the aim to improve educational outcomes

2 – Labelled transfers where participants are explicitly told that they are for use on education, but without any conditions

3 – Conditional transfers where conditions are not monitored or enforced

4 – Conditional transfers where conditions are monitored imperfectly and with little enforcement

5 – Conditional transfers where school enrolment conditions are monitored and enforced

6 – Conditional transfers where school attendance conditions are monitored and enforced

7 – Insufficient information to assign a category

8 – Program description does not match sufficiently to assign a category
Appendix G: Intervention implementation and transferability coding tool

This will be added in a later iteration of the protocol.