



Maximising the Impact of Teaching Assistants

Technical Notes

To accompany the Evaluation Report





The Education Endowment Foundation (EEF) is an independent grant-making charity dedicated to breaking the link between family income and educational achievement, ensuring that children from all backgrounds can fulfil their potential and make the most of their talents.

The EEF aims to raise the attainment of children facing disadvantage by:

identifying promising educational innovations that address the needs of disadvantaged children in primary and secondary schools in England;

evaluating these innovations to extend and secure the evidence on what works and can be made to work at scale; and

encouraging schools, government, charities, and others to apply evidence and adopt innovations found to be effective.

The EEF was established in 2011 by the Sutton Trust as lead charity in partnership with Impetus Trust (now part of Impetus - Private Equity Foundation) and received a founding £125m grant from the Department for Education. Together, the EEF and Sutton Trust are the government-designated What Works Centre for improving education outcomes for school-aged children.

For more information about the EEF or this report please contact:

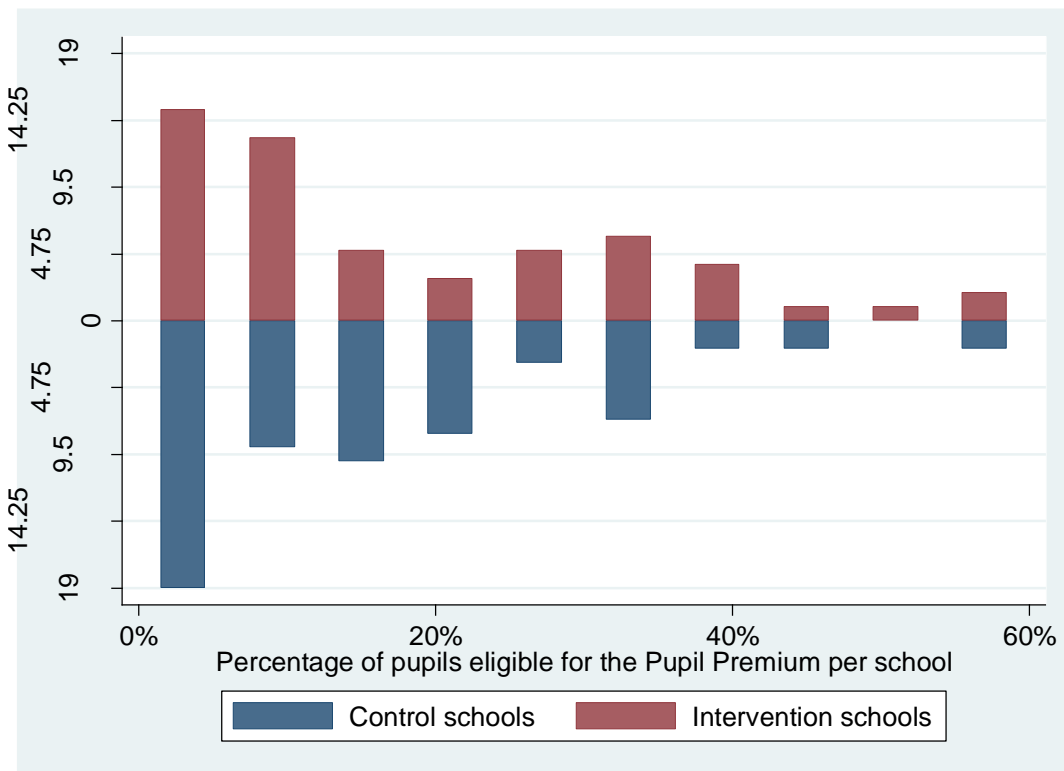
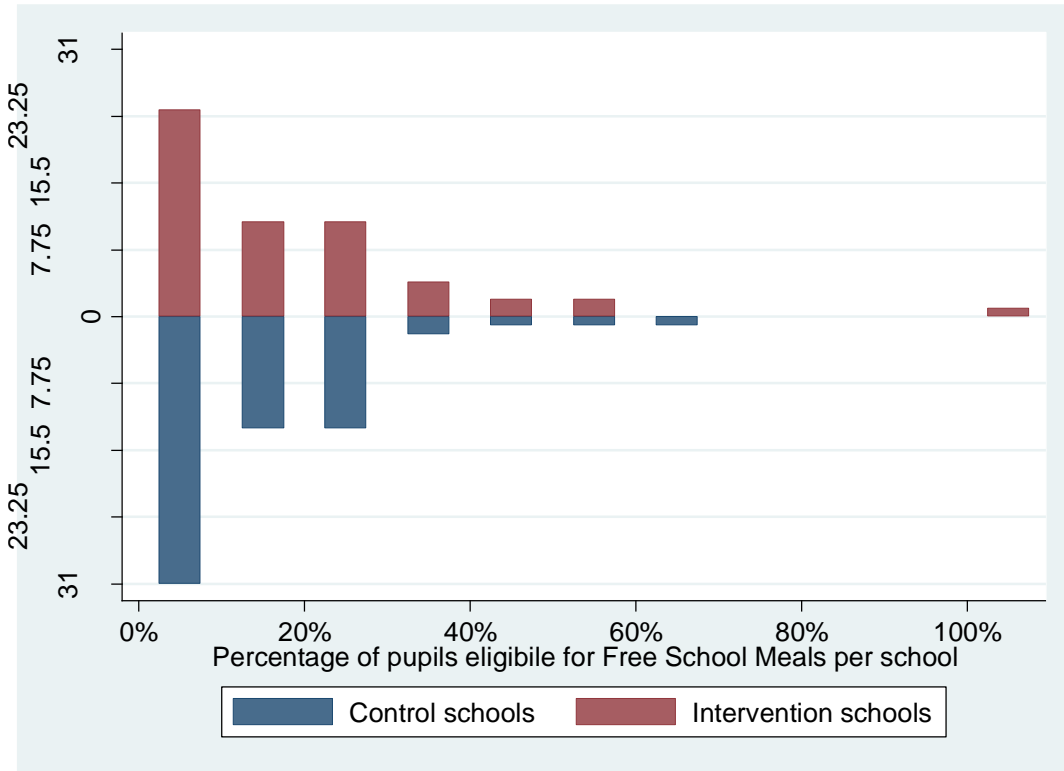
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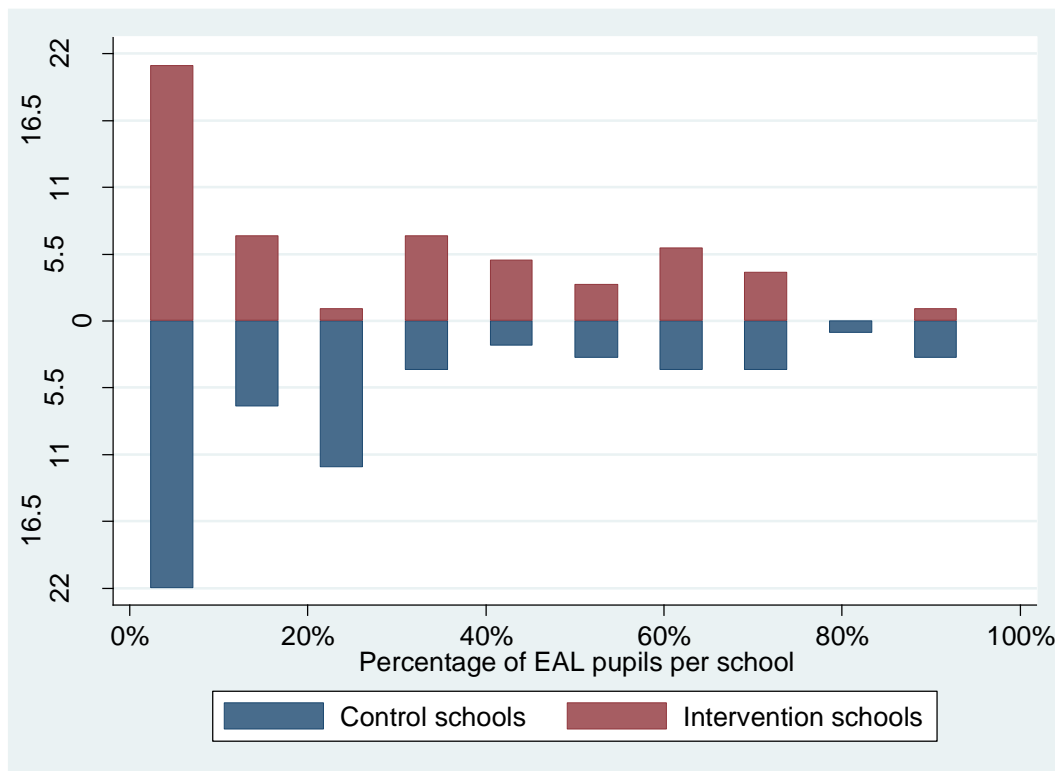
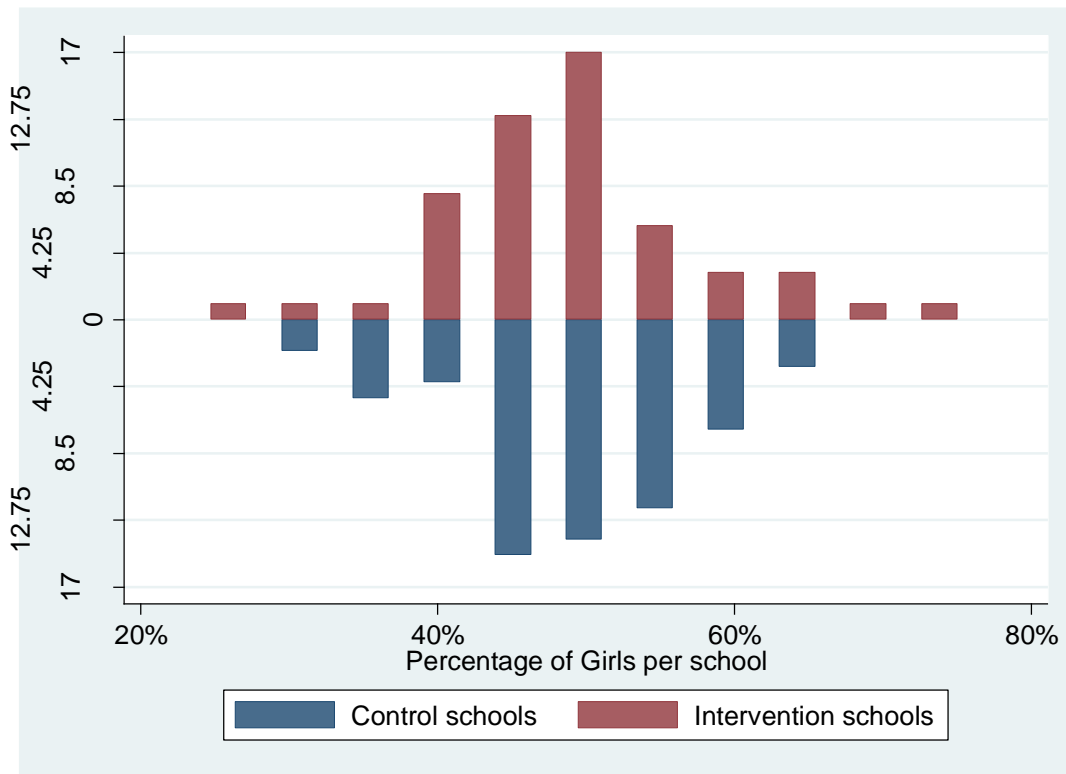
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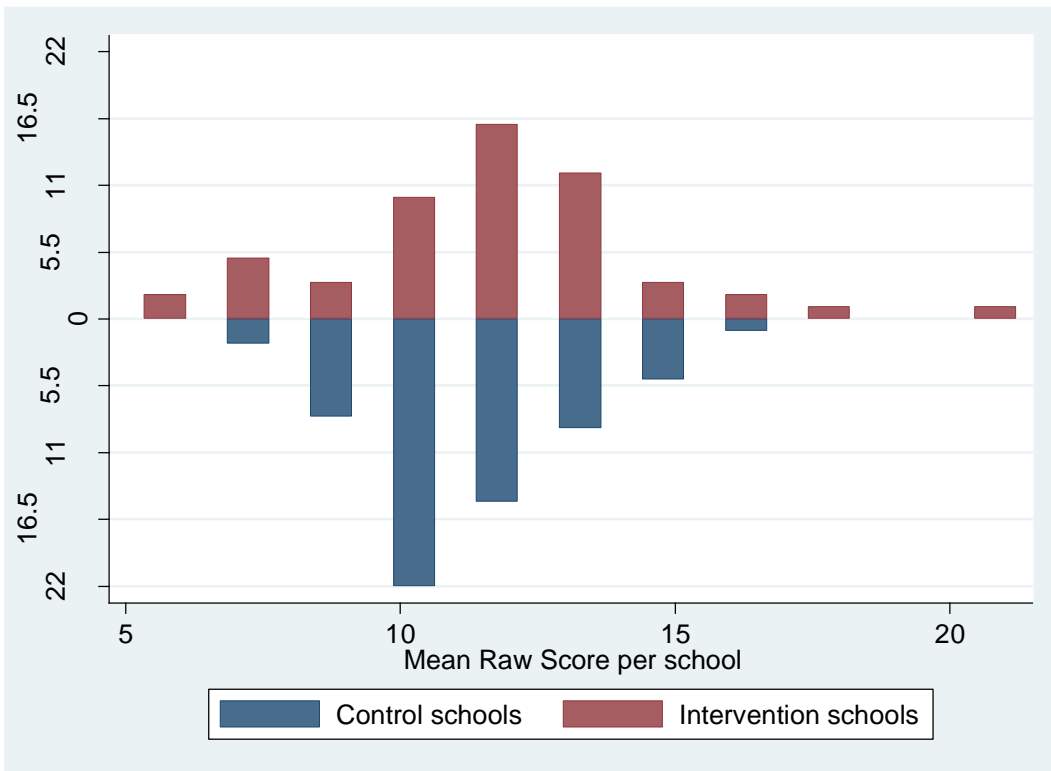
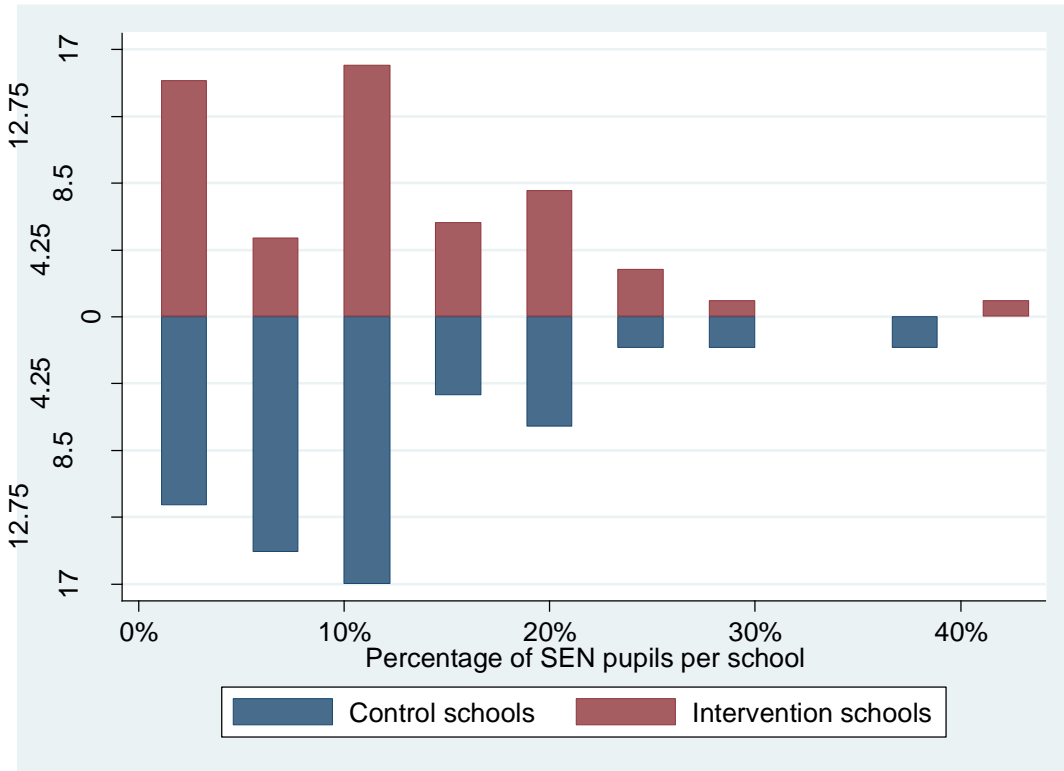
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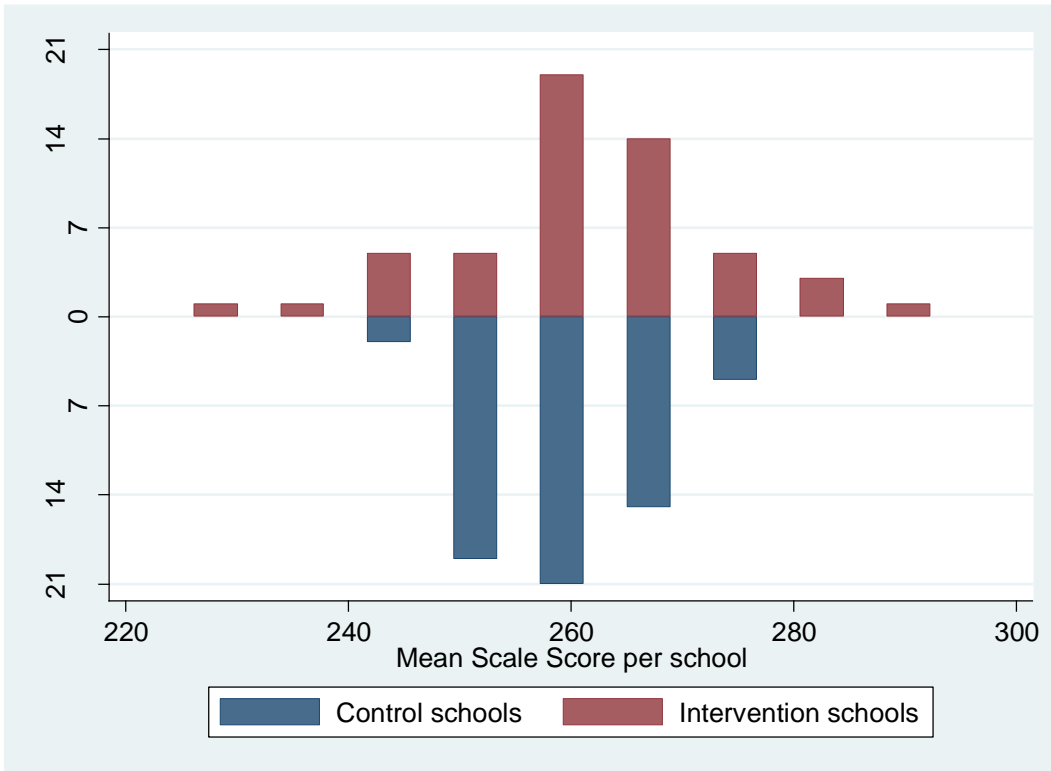
Appendix D: Baseline equivalence

The figures below show the distribution of the school means.









Appendix E: Classroom observation tool

Classroom Observation Protocol for Maximising Impact of Teaching Assistants - MTA

Date and time of observation:

1) Background information

- a. Observer Name:
- b. Class No./name/section:
- c. Observer's location in the class:
- d. No. Pupils
- e. Teacher name
- f. TA name

2) Classroom and background

- a. Room location and layout (e.g., type of student seating, teacher in front of or around the class, etc.).
- b. Note if there is any atypical about the class (avoid observing classes that are atypical)
- c. Any other comment.

3) Observation matrix

Please fill in the matrix in the next page indicating following the instructions below.

Time interval (min)	STAFF OBSERVATION														PUPIL OBSERVATION																							
	PREDOMINANT ACTIVITY OF TEACHER (size code: S, L) (attainment code: H, A, L, MU)							PREDOMINANT ACTIVITY OF TA 1 Class based 1:1 (please circle) (size code: S, L) (attainment code: H, A, L, M U)							PREDOMINANT ACTIVITY OF TA 2 Class based 1:1 (please circle) (size code: S, L) (attainment code: H, A, L, M U)							AVERAGE ATTAINMENT INTERACTION WITH (Code - I/P/Lg / SG / C)					LOW ATTAINMENT INTERACTION WITH (Code - I/P/LG / SG / C)						SEN SUPPORT INTERACTION WITH (Code - I/P/LG / SG / C)					
	Teaching whole class	With pupil one to one	With group of pupils *	Roving classroom	Co-teaching	Other task	Bin	With pupil one to one	With group of pupils *	Roving classroom	Listening to teacher teach	Co-teaching	Other task	Bin	With pupil one to one	With group of pupils *	Roving classroom	Listening to teacher teach	Co teaching	Other task	Bin	Teacher	TA	Peer	No interaction	Bin / other	Teacher	TA	Peer	No interaction	Bin / other	Teacher	TA	Peer	No interaction	Bin / other		
e.g.			LH						SL							SU							C					C						I				
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Group size: Small (S) = 2-5pupils Large (L) = 6-10 pupils

I – Individual; P – Pair; LG – Large group; SG – Small group; C – Class

Group / pupil attainment: H = high; A = average; L = low; M = mixed; U = unsure

Time interval (min)	STAFF OBSERVATION														PUPIL OBSERVATION																							
	PREDOMINANT ACTIVITY OF TEACHER (size code: S, L) (attainment code: H, A, L, M U)							PREDOMINANT ACTIVITY OF TA 1 Class based 1:1 (please circle) (size code: S, L) (ability code: H, A, L, M U)							PREDOMINANT ACTIVITY OF TA 2 Class based 1:1 (please circle) (size code: S, L) (ability code: H, A, L, M U)					AVERAGE ATTAINMENT INTERACTION WITH (Code - I/P/LG / SG /C)					LOW ATTAINMENT INTERACTION WITH (Code - I/P/LG / SG /C)					SEN INTERACTION WITH (Code - I/P/LG / SG /C)								
	Teaching whole class	With pupil one to one	With group of pupils *	Roving classroom	Co-teaching	Other task	Bin	With pupil one to one	With group of pupils *	Roving classroom	Listening to teacher teach	Co-teaching	Other task	Bin	With pupil one to one	With group of pupils *	Roving classroom	Listening to teacher teach	Co teaching	Other task	Bin	Teacher	TA	Peer	No interaction	Bin / other	Teacher	TA	Peer	No interaction	Bin / other	Teacher	TA	Peer	No interaction	Bin / other		
22																																						
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Group size: Small (S) = 2-5pupils Large (L) = 6-10 pupils

I - Individual; P - Pair; LG - Large group; SG - Small group; C - Class

Group / pupil attainment: H = high; A = average; L = low; M = mixed; U = unsure

4) Instructions

This systematic observation schedule describes the activities of pupils and staff on a minute-by-minute basis, to be recorded on a rigorous, objective and replicable description of behaviour and the contexts in which it occurs. The researcher must code across the schedule at 10 second intervals, based on observation of the predominant activities of the adults and the interactions experienced by the pupils.

The minute-by-minute observation process

You will notice that the 'time interval' column divides the observation sheet into one-minute intervals (rows). The actual timeframe for codeable observations is at each ten seconds. You code each of the six columns, once during each minute.

Once you are practised at coding, you will easily be able to code at each tenth second, whilst giving you good time to observe the activity or interaction and reflect on the most appropriate code.

Coding should be straightforward. Your main task is to capture the *interactions* that the target experiences and the predominant activity of each adult during each observation interval. For the best part you will be coding occurrences of *verbal interactions*. You will typically see that a verbal interaction has occurred, but not necessarily hear its content. But this is fine; we only need you to record that a verbal interaction has taken place – not the nature of what was said.

Some of the interactions you may observe will be *non-verbal interactions*. For example, a TA may point to the target's textbook to draw their attention to something in particular; or the pupil sat next to the target may nudge them as they secretly share a joke. These interactions can be very subtle, so you will not always spot them (should they occur in the observation interval). This too is fine. If you have any doubts about how to apply the observation codes, you can use the 'bin' category, which we explain below.

Binning observations

Before we go any further, it is worth admitting that systematic observation is not an exact science! It is impossible to capture and code behaviours with 100% accuracy, 100% of the time, across multiple sites and using many different observers. In lively and dynamic classrooms, unpredictable things can and do happen. There will be some situations and instances you observe that are 'messy' and difficult to code, because they do not fit neatly into our predefined category system. If you are unsure of what to code at a particular 10 second interval, you should use the 'bin' category and move onto the next. For the purposes of data entry and analysis, it is more useful to have a 'don't know' than to have missing data.

Making decisions

Coding systematic observations entails following a process, which we have set out in the diagram below. Your target is to spot predominant activity of teacher, TA₁ and (if applicable) TA₂. For teacher, TA₁ and TA₂ you have to notice if they are:

- Teaching whole class
- With pupil one to one
- With group of pupils (see codes for this below)
- Roving classroom
- Co-teaching (*Co-teaching may be seen where a TA is modelling an activity on behalf of a teacher or is at the front of the class with the teacher, perhaps demonstrating or scribing part of the lesson*)
- Other task
- Bin

Please circle at the top of TA columns whether they are working as a class based TA or in a 1:1 capacity (e.g perhaps directly with a pupil who has an EHCP plan or Statement of Special Educational Need)

To specify the group the teacher/TA is interacting with you will use a combination of code indicating size and ability:

- Group **size**: Small (S) = 2-5pupils Large (L) = 6-10 pupils (*please note that any group of 11+ pupils should be coded as whole class teaching*)
- Group **attainment**: H = high; A = average; L = low; M = mixed; U = unsure

So, for instance, if teacher is working with a small group of average ability this would be coded as 'SA' and so on. The possible combinations are ten: SH, SA, SL, SM, SU / LH, LA, LL, LM, LU.

Similarly, for pupil observation you will have to notice if they are interacting with:

- Teacher,
- TA,
- Peer,
- No interaction,
- Bin/Other

So, let's say a pupil is interacting with the teacher by listening on the carpet as part of a whole class you would write C under teacher. Similarly, LG under peer if a pupil is talking to his/her partner whilst working as part of a larger group, or P under TA if a pupil is interacting with a TA with a partner.

Appendix F: Coding framework for audio recording

Table 1: Coding framework for TA talk strategies

1	Prompting waiting time (PW)	Pauses of 3 seconds or longer following a TA question or instruction before intervention by the TA). Also pauses following a pupil query about what to do which are 3 seconds or longer
2	Prompting verbal (PV)	Utterances which encourage the pupil to think more but do not give any additional input.
3	Clueing information (CINF)	A piece of information is provided directly to the pupil to help them move forward but does not give them the answer or the next move. For example, 'It's an animal with a long neck'
3	Clueing information (CINF)	A piece of information is provided directly to the pupil to help them move forward but does not give them the answer or the next move. For example, 'It's an animal with a long neck'
5	Clueing choice (CC)	A choice of two or more options is provided for the pupil to select from. For example, 'Is this an apple or a pear?'
6	Clueing incomplete utterances (CINC)	Utterances which start the response for the pupil, but the pupil needs to complete the sentence to move forward. For example: 'Now it's time for...'
7	Modelling (M)	The adult demonstrates for the pupil, normally while talking aloud in the first person. For example, 'I am using my finger to scan the words. I am looking for the word strong...'
8	Correcting answer (CORA)	The correct answer is given to pupil
9	Correcting instruction (CORI)	An instruction given as to the strategy to be used or the next move to be taken. For example, 'Sound it out'

Appendix G: Measure development: analytical approach

Secondary outcome measure: Change in practice measure

Table 2: Change in practice measure construction

Category	Aspect	Survey question	Coded	ALL AVERAGED, THEN: Scaled out of...
TA deployment (1)	TAs spend less time with pupils with SEND	TA survey Q4 – time spent (2 nd longest with group = SEND	0 if longest 1 if 2 nd longest 2 if neither	30
	TAs spend less time with lower-attaining pupils	TA survey Q4 –group = Lower-attaining	As above	
	Teachers spend more time with pupils with SEND LONGEST	Teacher survey Q4 – with group = SEND	2 if longest 1 if 2 nd longest 0 if neither	
	Teachers spend more time with lower-attaining pupils SECOND LONGEST	Teacher survey Q4 – group = Lower-attaining	As above	
Quality of TA preparation (2)	TAs' pre-lesson preparation	TA survey Q7	Aggregate score based on 7-point scale, with 5-point response options, coded from 4 (always) to 0 (never) in descending order; all items 1, 2, 3 4, 5, 6,7	30
		Teacher survey Q8	Equivalent to TAQ7, but from teachers' perspective, same items as TAQ7, all items(1,2,3,4,5,6,7)	
		TA Survey Q10	Code on sliding scale: I joined the lessons with a lesson plan and had clear information about my role (e.g. outcomes/objectives for pupils) = 3 I joined the lessons with a lesson plan, but had limited information about my role (e.g. only a list of pupils to support) = 2 I joined the lessons with a lesson plan, but had no information about my role/objectives for the lesson = 1 I joined the lessons without being provided with a lesson plan = 0	
		TA Survey Q11	Code on sliding scale: I planned and prepared with very little/no input from teachers = 1 I planned and prepared with some general guidance from teachers = 2 I planned and prepared with detailed guidance from teachers =3 I do not plan or prepare for any pupils within the lessons = 0	

		Teacher Survey Q11	<p>Code on sliding scale: TA joined the lessons with a lesson plan and had clear information about my role (e.g. outcomes/objectives for pupils) = 3 TA joined the lessons with a lesson plan, but had limited information about my role (e.g. only a list of pupils to support) = 2 TA joined the lessons with a lesson plan, but had no information about my role/objectives for the lesson = 1 TA joined the lessons without being provided with a lesson plan = 0</p>	
		Teacher Survey Q12	<p>Coded on sliding scale: TA planned and prepared with very little input = 1 TA planned and prepared with some general guidance = 2 TA planned and prepared with detailed guidance = 3 TA did not plan or prepare = 0</p>	
	Improvements in opportunities for and quality of teacher-TA liaison	TA survey Q6.-	<p>Code on sliding scale: Teacher and I have scheduled time to meet = 3; I come into school early and/or stay behind after school. We use this as an opportunity to meet = 2 My communication with teacher(s) is brief and ad hoc (e.g. a couple of minutes before the lesson starts) =1 There is no opportunity or time to communicate with teacher(s) outside of lessons =0</p>	
		Teacher survey Q7 -	<p>Code on sliding scale: TA and I have scheduled time to meet = 3; I come into school early and/or stay behind after school. We use this as an opportunity to meet = 2 My communication with teacher(s) is brief and ad hoc (e.g. a couple of minutes before the lesson starts) =1 There is no opportunity or time to communicate with teacher(s) outside of lessons =0</p>	

Survey items included in the construct:

(1) TA Deployment

TA Q4: Once again, thinking about what you did in your last three lessons, which **two groups of pupils did you spend the MOST time supporting?**

	Higher attaining pupils	Average attaining pupils	Lower attaining pupils (excluding SEND)	Pupils with SEND	Mixed attaining pupils
Group I spent the LONGEST time with	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group I spent the SECOND longest time with	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Teacher Q4: Once again, thinking about what you did in your last three lessons, which **two groups of pupils did you spend the MOST time supporting?**

	Higher attaining pupils	Average attaining pupils	Lower attaining pupils (excluding SEND)	Pupils with SEND	Mixed attaining pupils
Group I spent the LONGEST time with	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group I spent the SECOND longest time with	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(2) Quality of TA Pupil Interaction

TA Q7: Thinking about your daily work, for each of the areas listed below please indicate - on average - **how prepared do you feel when you come into lessons?**

Please mark one choice in each row.

	Always	Often	Sometimes	Rarely	Never
I know which pupil(s) I will support					
I am aware of the educational needs of the pupil(s) I will support					

I know what topic will be covered in the lessons					
I have enough subject knowledge to provide effective support					
I have enough pedagogical/ instructional knowledge to provide effective support					
I am aware of the expected outcomes for the pupil(s) I will support					
I know what feedback I need to give to the teacher at the end of the lesson					

Teacher Q8: There are a number of things that can help TA(s) to be effective in lessons.

For each of the areas listed below, please indicate - on average - **how prepared you feel TA(s) are** when they come into your lessons.

Please mark one choice in each row.

	Always	Often	Sometimes	Rarely	Never
They know which pupil(s) they will support					
They are aware of the educational needs of the pupil(s) they will support					
They know what topic will be covered in the lesson					
They have enough subject knowledge to provide effective support					
They have enough pedagogical/instructional knowledge to provide effective support					
They are aware of the expected outcomes for the pupil(s) they will support					
They know what feedback you require from them					

TA Q10: Reflecting on the **last three lessons**, please select the option that best describes your preparation for these lessons.

I joined the lessons without being provided with a lesson plan	<input type="checkbox"/>
I joined the lessons with a lesson plan, but had no information about my role/objectives for the lesson	<input type="checkbox"/>

I joined the lessons with a lesson plan, but had limited information about my role (e.g. only a list of pupils to support)	<input type="checkbox"/>
I joined the lessons with a lesson plan and had clear information about my role (e.g. outcomes/objectives for pupils)	<input type="checkbox"/>

TA Q11: Reflecting on the last three lessons, how did you prepare to work with specific pupils?

I planned and prepared with very little/no input from teachers	<input type="checkbox"/>
I planned and prepared with some general guidance from teachers	<input type="checkbox"/>
I planned and prepared with detailed guidance from teachers	<input type="checkbox"/>
I do not plan or prepare for any pupils within the lessons	<input type="checkbox"/>

Teacher Q11: Reflecting on the last three lessons in which you had TA support, please select the option that best describes the preparation of TA(s) for these lessons:

The TA(s) joined the lessons without being provided with a lesson plan	<input type="checkbox"/>
The TA(s) joined the lessons with a lesson plan, but had no information about their role/objectives for the lesson	<input type="checkbox"/>
The TA(s) joined the lessons with a lesson plan, but had limited information about their role (e.g. only a list of pupils to support)	<input type="checkbox"/>
The TA(s) joined the lessons with a lesson plan and had clear information about their role (e.g. outcomes/objectives for pupils)	<input type="checkbox"/>

Teacher Q12: Reflecting on the last three lessons in which you had TA support, how did the TA(s) in your classroom prepare to work with specific pupils?

The TA(s) planned and prepared with very little/no input from teachers	<input type="checkbox"/>
The TA(s) planned and prepared with some general guidance from teachers	<input type="checkbox"/>
The TA(s) planned and prepared with detailed guidance from teachers	<input type="checkbox"/>
The TA(s) do not plan or prepare for any pupils within the lessons	<input type="checkbox"/>

TA Q6: We would like to know about the **opportunities you have to meet and communicate** with the teachers you work with.

Please select the statement below which best describes your experience

a. The teacher(s) and I have scheduled time to meet each week	<input type="checkbox"/>
b. I come into school early and/or stay behind after school. We use this as an opportunity to meet	<input type="checkbox"/>
c. My communication with teacher(s) is brief and ad hoc (e.g. a couple of minutes before the lesson starts)	<input type="checkbox"/>
d. There is no opportunity or time to communicate with teacher(s) outside of lessons	<input type="checkbox"/>

Teacher Q7: We would like to know about the **opportunities you have to meet and communicate** with the TA(s) you work with.

Please select the statement below which best describes your experience.

There is no opportunity or time to communicate with TA(s) outside of lessons	<input type="checkbox"/>
My communication with TA(s) is brief and ad hoc (e.g. a couple of minutes before the lesson starts)	<input type="checkbox"/>
TA(s) come into school early and/or stay behind after school. I use this as an opportunity to meet with them	<input type="checkbox"/>
The TA(s) and I have scheduled time to meet each week	<input type="checkbox"/>

Appendix H: Analysis code and output

Primary outcome analysis

```
xtmixed z_pooled_primary_outcome ib0.allocation ib4.strata z_pooled_prior_attainment ||
schoolname_supplied:if z_pooled_primary_outcome!=. & z_pooled_prior_attainment!=., mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

```
Iteration 0: log pseudolikelihood = -12476.306
Iteration 1: log pseudolikelihood = -12476.306
```

Computing standard errors:

```
Mixed-effects regression      Number of obs = 10,777
Group variable: schoolname_s~d  Number of groups = 116
```

```
Obs per group:
min = 14
avg = 92.9
max = 196
```

```
Wald chi2(9) = 2317.44
Log pseudolikelihood = -12476.306      Prob > chi2 = 0.0000
```

(Std. Err. adjusted for 116 clusters in schoolname_supplied)

	Robust						
z_pooled_primary_outcome	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]		
-----+-----							
allocation							
Tr. school [MITA]	-.0008363	.0350874	-0.02	0.981	-.0696064	.0679338	
strata							
London+Hi KS2	.0577275	.0803352	0.72	0.472	-.0997267	.2151817	
London+Lo KS2	-.1206113	.0818296	-1.47	0.140	-.2809944	.0397718	
Portsmouth+Hi KS2	-.0032358	.1069463	-0.03	0.976	-.2128467	.2063752	
Suffolk+Hi KS2	-.0672323	.1342203	-0.50	0.616	-.3302992	.1958346	
Suffolk+Lo KS2	-.1422548	.122179	-1.16	0.244	-.3817212	.0972116	
West Mids+Hi KS2	-.0613944	.0892556	-0.69	0.492	-.2363323	.1135434	
West Mids+Lo KS2	-.1282708	.0944953	-1.36	0.175	-.3134781	.0569365	
z_pooled_prior_attainment	.6221417	.0145807	42.67	0.000	.5935641	.6507193	
_cons	.0396926	.077035	0.52	0.606	-.1112932	.1906785	

	Robust		
Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]
-----+-----			
schoolname~d: Identity			
sd(_cons)	.1679848	.0130534	.1442536 .19562
-----+-----			
sd(Residual)	.7633129	.0065572	.7505686 .7762736

Secondary outcome analysis: Math attainment

```
xtmixed ks2_matscore_num ib0.allocation ib4.strata ks1_matpoints ks1_readwritpoints ||
schoolname_supplied:i
>f z_pooled_primary_outcome!=. & z_pooled_prior_attainment!=., mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

```
Iteration 0: log pseudolikelihood = -17983.716
Iteration 1: log pseudolikelihood = -17983.716
```

Computing standard errors:

```
Mixed-effects regression      Number of obs = 5,976
Group variable: schoolname_~d  Number of groups = 109
```

```
Obs per group:
min = 10
avg = 54.8
max = 112
```

```
Wald chi2(10) = 2183.10
Log pseudolikelihood = -17983.716      Prob > chi2 = 0.0000
```

(Std. Err. adjusted for 109 clusters in schoolname_supplied)

	Robust					
ks2_matscore_num	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	

allocation						
Tr. school [MITA]	-.3514523	.3763402	-0.93	0.350	-1.089066	.3861611

strata						
London+Hi KS2	1.72293	.5873724	2.93	0.003	.5717016	2.874159
London+Lo KS2	.2421589	.6405665	0.38	0.705	-1.013328	1.497646
Portsmouth+Hi KS2	.5501033	.7303179	0.75	0.451	-.8812936	1.9815
Suffolk+Hi KS2	-.7788434	1.102235	-0.71	0.480	-2.939184	1.381497
Suffolk+Lo KS2	-.9530938	1.330648	-0.72	0.474	-3.561116	1.654928
West Mids+Hi KS2	-.1153477	.7093575	-0.16	0.871	-1.505663	1.274967
West Mids+Lo KS2	-.0367032	.7532639	-0.05	0.961	-1.513073	1.439667

ks1_matpoints	1.170508	.034099	34.33	0.000	1.103675	1.23734
ks1_readwritpoints	.3784497	.0379312	9.98	0.000	.3041059	.4527935
_cons	79.6671	.827978	96.22	0.000	78.0443	81.28991

	Robust		
Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]

schoolname~d: Identity			
sd(_cons)	1.778897	.1293662	1.542585 2.05141

sd(Residual)	4.814263	.0746807	4.670094 4.962882

Secondary outcome analysis: Engagement Y3

```
. mixed engagement_sum treatment i.strata || mlm_id:, mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

```
Iteration 0: log pseudolikelihood = -5265.982
Iteration 1: log pseudolikelihood = -5265.9557
Iteration 2: log pseudolikelihood = -5265.9557
```

Computing standard errors:

```
Mixed-effects regression      Number of obs   =      1,337
Group variable: mlm_id       Number of groups =         33

                               Obs per group:
                               min =         4
                               avg =        40.5
                               max =        110

                               Wald chi2(6)   =         .
Log pseudolikelihood = -5265.9557           Prob > chi2    =         .
```

(Std. Err. adjusted for 33 clusters in mlm_id)

engagement_sum	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
treatment	-2.616763	1.004239	-2.61	0.009	-4.585035	-.6484914
strata						
London+Lo KS2	-1.09241	1.100562	-0.99	0.321	-3.249473	1.064653
Portsmouth+Hi KS2	-.4169181	1.50293	-0.28	0.781	-3.362606	2.52877
Portsmouth+Lo KS2	2.407388	.7625302	3.16	0.002	.9128561	3.90192
Suffolk+Lo KS2	-3.447969	.7625302	-4.52	0.000	-4.942501	-1.953437
West Mids+Hi KS2	-1.069356	1.427054	-0.75	0.454	-3.86633	1.727618
West Mids+Lo KS2	1.391751	1.254368	1.11	0.267	-1.066765	3.850268
_cons	70.25223	1.102769	63.71	0.000	68.09085	72.41362

Random-effects Parameters	Estimate	Robust Std. Err.	[95% Conf. Interval]	
mlm_id: Identity				
var(_cons)	1.280754	1.092468	.2406584	6.816013
var(Residual)	153.308	10.92584	133.3221	176.29

Secondary outcome analysis: Engagement Y6

```
. mixed engagement_sum treatment i.strata || mlm_id:, mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

```
Iteration 0: log pseudolikelihood = -3821.3972
Iteration 1: log pseudolikelihood = -3821.1314
Iteration 2: log pseudolikelihood = -3821.1314
```

Computing standard errors:

```
Mixed-effects regression      Number of obs   =    1,001
Group variable: mlm_id       Number of groups =     23

                                Obs per group:
                                min =     10
                                avg =    43.5
                                max =     83

                                Wald chi2(7)    =      .
                                Prob > chi2     =      .

Log pseudolikelihood = -3821.1314
```

(Std. Err. adjusted for 23 clusters in mlm_id)

engagement_sum	Robust		z	P> z	[95% Conf. Interval]	
	Coef.	Std. Err.				
treatment	-2.473013	.7646478	-3.23	0.001	-3.971695	-.974331
strata						
London+Lo KS2	.3823819	1.176447	0.33	0.745	-1.923412	2.688176
Portsmouth+Hi KS2	-2.336029	2.042207	-1.14	0.253	-6.338682	1.666624
Portsmouth+Lo KS2	1.328253	.8697942	1.53	0.127	-.3765127	3.033018
Suffolk+Hi KS2	5.552038	1.372875	4.04	0.000	2.861252	8.242824
Suffolk+Lo KS2	.3593097	.6593013	0.54	0.586	-.9328971	1.651517
West Mids+Hi KS2	-3.944381	1.0256	-3.85	0.000	-5.954519	-1.934243
West Mids+Lo KS2	-.3924857	.6911305	-0.57	0.570	-1.747076	.9621052
_cons	88.9909	.8697942	102.31	0.000	87.28613	90.69566

Random-effects Parameters	Robust		[95% Conf. Interval]	
	Estimate	Std. Err.		
mlm_id: Identity				
var(_cons)	8.04e-09	7.21e-07	4.24e-85	1.52e+68
var(Residual)	121.1163	10.13486	102.7957	142.702

Secondary outcome: Change in practice measure

```
. reg change_measure_final treatment
```

Source	SS	df	MS	Number of obs	=	69
Model	1.00454324	1	1.00454324	F(1, 67)	=	2.00
Residual	33.6339956	67	.501999934	Prob > F	=	0.1618
				R-squared	=	0.0290
				Adj R-squared	=	0.0145
Total	34.6385388	68	.509390277	Root MSE	=	.70852

change_mea~1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
treatment	.253336	.1790872	1.41	0.162	-.1041235 .6107956
_cons	-.1699114	.1446259	-1.17	0.244	-.4585859 .1187632

Subgroup analysis: FSM

```
xtmixed z_pooled_primary_outcome /*ib0.allocation*/ ib4.strata z_pooled_prior_attainment
ib3.FSMinter || schoolname_s
> upplied: if z_pooled_primary_outcome!=. & z_pooled_prior_attainment!=., mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log pseudolikelihood = -12424.449

Iteration 1: log pseudolikelihood = -12424.449

Computing standard errors:

Mixed-effects regression Number of obs = 10,771
Group variable: schoolname_s~d Number of groups = 116

Obs per group:
min = 14
avg = 92.9
max = 196

Wald chi2(11) = 2541.71
Log pseudolikelihood = -12424.449 Prob > chi2 = 0.0000

(Std. Err. adjusted for 116 clusters in schoolname_supplied)

```
-----+-----
```

	Robust					
z_pooled_primary_outcome	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
-----+-----						
strata						
London+Hi KS2	.0552455	.0816867	0.68	0.499	-.1048576 .2153485	
London+Lo KS2	-.112173	.0824614	-1.36	0.174	-.2737944 .0494483	
Portsmouth+Hi KS2	-.0141298	.1066597	-0.13	0.895	-.223179 .1949195	
Suffolk+Hi KS2	-.0870016	.1317793	-0.66	0.509	-.3452842 .1712811	
Suffolk+Lo KS2	-.1465181	.1272402	-1.15	0.250	-.3959044 .1028681	
West Mids+Hi KS2	-.0717661	.091216	-0.79	0.431	-.2505463 .107014	
West Mids+Lo KS2	-.1160268	.0945396	-1.23	0.220	-.3013211 .0692675	
-----+-----						
z_pooled_prior_attainment	.6134587	.0141026	43.50	0.000	.5858181 .6410992	
-----+-----						
FSMinter						
non-FSM/treatment	.1715984	.0453656	3.78	0.000	.0826834 .2605134	
non-FSM/control	.1651188	.0282191	5.85	0.000	.1098103 .2204273	
FSM/treatment	-.0155415	.0489426	-0.32	0.751	-.1114672 .0803841	
-----+-----						
_cons	-.0870611	.0804578	-1.08	0.279	-.2447555 .0706333	

```
-----+-----
```

	Robust				
Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]		
-----+-----					
schoolname~d: Identity					
sd(_cons)	.1642783	.0139643	.1390673	.1940598	
-----+-----					
sd(Residual)	.7602529	.0065322	.7475573	.7731642	

Subgroup analysis: SEND

```
. xtmixed z_pooled_primary_outcome /*ib0.allocation*/ ib4.strata
z_pooled_prior_attainment ib3.SENinter || schoolname_s
> upplied: if z_pooled_primary_outcome!=. & z_pooled_prior_attainment!=., mle vce(robust)
```

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log pseudolikelihood = -12298.07

Iteration 1: log pseudolikelihood = -12298.07

Computing standard errors:

Mixed-effects regression Number of obs = 10,774
Group variable: schoolname_s~d Number of groups = 116

Obs per group:
min = 14
avg = 92.9
max = 196

Wald chi2(11) = 3002.35
Log pseudolikelihood = -12298.07 Prob > chi2 = 0.0000

(Std. Err. adjusted for 116 clusters in schoolname_supplied)

```
-----+-----
```

	Robust				
z_pooled_primary_outcome	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
-----+-----					
strata					
London+Hi KS2	.0596703	.0828982	0.72	0.472	-.1028073 .2221478
London+Lo KS2	-.1167899	.0848626	-1.38	0.169	-.2831176 .0495378
Portsmouth+Hi KS2	-.0017036	.1088756	-0.02	0.988	-.2150959 .2116888
Suffolk+Hi KS2	-.0768686	.1310626	-0.59	0.558	-.3337466 .1800093
Suffolk+Lo KS2	-.1506695	.1188952	-1.27	0.205	-.3837 .0823609
West Mids+Hi KS2	-.074042	.0921786	-0.80	0.422	-.2547088 .1066247
West Mids+Lo KS2	-.125393	.0953048	-1.32	0.188	-.3121869 .061401
z_pooled_prior_attainment	.5700244	.0146441	38.93	0.000	.5413225 .5987263
SENinter					
non-SEN/treatment	.4539656	.055804	8.13	0.000	.3445917 .5633395
non-SEN control	.4579436	.0413999	11.06	0.000	.3768013 .5390859
SEN/treatment	.05173	.0657988	0.79	0.432	-.0772332 .1806933
_cons	-.3567881	.0875786	-4.07	0.000	-.5284391 -.1851372
-----+-----					
Random-effects Parameters Estimate Std. Err. [95% Conf. Interval]					
-----+-----					
schoolname~d: Identity					
sd(_cons)	.1636679	.0125067	.1409026	.1901114	
-----+-----					
sd(Residual)	.7510935	.006251	.7389412	.7634456	
-----+-----					

Missing data analysis

Logistic regression

missing_data	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]
allocation					
Tr. school [MITA]	.8283695	.1694712	-0.92	0.357	.5547302 1.236991
strata					
London+Hi KS2	.8516911	.2796997	-0.49	0.625	.4474486 1.621142
London+Lo KS2	1.021522	.3449638	0.06	0.950	.5269878 1.980136
Portsmouth+Hi KS2	.5709828	.3211631	-1.00	0.319	.1896025 1.719499
Suffolk+Hi KS2	.9480403	.7158947	-0.07	0.944	.2158033 4.164813
Suffolk+Lo KS2	1	(empty)			
West Mids+Hi KS2	2.084966	.8396218	1.82	0.068	.9469297 4.590715
West Mids+Lo KS2	.7718041	.2862497	-0.70	0.485	.373087 1.596629
1.everfsm_6_spr19	1.317926	.2745963	1.32	0.185	.8760708 1.982637
1.senpupilid	39.13108	16.73707	8.57	0.000	16.92184 90.48908
z_pooled_prior_achievement	.2671031	.027168	-12.98	0.000	.2188267 .3260301
_cons	.0003238	.0001671	-15.57	0.000	.0001178 .0008902

FIML

. sem (z_pooled_primary_outcome <- allocation strata z_pooled_prior_achievement), method(mlmv)
 note: Missing values found in observed exogenous variables. Using the noxconditional behavior. Specify the forcexconditional option to override this behavior.

Endogenous variables

Observed: z_pooled_primary_outcome

Exogenous variables

Observed: allocation strata z_pooled_prior_achievement

Fitting saturated model:

Iteration 0: log likelihood = -66966.297
 Iteration 1: log likelihood = -66906.545
 Iteration 2: log likelihood = -66905.878
 Iteration 3: log likelihood = -66905.878

Fitting baseline model:

Iteration 0: log likelihood = -69336.962
 Iteration 1: log likelihood = -69333.723
 Iteration 2: log likelihood = -69333.711
 Iteration 3: log likelihood = -69333.711

Fitting target model:

Iteration 0: log likelihood = -66905.878
 Iteration 1: log likelihood = -66905.878

Structural equation model Number of obs = 12,152
 Estimation method = mlmv
 Log likelihood = -66905.878

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interval]
Structural						
z_pooled_primary_outcome	allocation	-.0120204	.0154741	-0.78	0.437	-.0423491 .0183082
	strata	-.0167217	.0029145	-5.74	0.000	-.0224341 -.0110094
	z_pooled_prior_achievement	.6290741	.0080365	78.28	0.000	.6133229 .6448253
	_cons	.0548863	.0150301	3.65	0.000	.0254279 .0843447
	mean(allocation)	.4811743	.0045426	105.93	0.000	.472271 .4900776
	mean(strata)	3.516129	.0236307	148.80	0.000	3.469814 3.562444
	mean(z_pooled_prior_achievement)	-.0001876	.0090538	-0.02	0.983	-.0179327 .0175574
	var(e.z_pooled_primary_outcome)	.6113969	.0085266			.5949113 .6283393
	var(allocation)	.249645	.0032098			.2434325 .2560161
	var(strata)	6.785783	.0870545			6.617287 6.95857
	var(z_pooled_prior_achievement)	.9961059	.012779			.9713718 1.02147
	cov(allocation, strata)	-.0230863	.0118267	-1.95	0.051	-.0462661 .0000935
	cov(allocation, z_pooled_prior_achievement)	.0227004	.0045389	5.00	0.000	.0138044 .0315964
	cov(strata, z_pooled_prior_achievement)	-.1055932	.0236041	-4.47	0.000	-.1518563 -.05933

LR test of model vs. saturated: chi2(0) = 0.00, Prob > chi2 = .

Appendix I: MITA Reviewer checklist



MITA Reviewer post-visit checklist – VISIT 1

Why are we asking these questions?

In the world of evidence-informed practice, it's becoming increasingly clear that *how* schools implement a programme is a strong determinant of overall success; equally as strong as the quality of the training and support they receive. There are things we think schools should be doing to give MITA the best chance of success, and we predict we'll see greater success in the schools that implement the guidance, etc. with greater faith and fidelity than those that don't. Seems obvious, but we nonetheless need to track the components of fidelity over the course of the year to help us understand more about how and why MITA works.

What do Reviewers need to do?

In most cases, you'll have a closer relationship with the school than the MITA team or the evaluation team. You'll also have a sense, based on your professional experience and judgement, of how well things are going for them. We need to tap into that to help us collect data on implementation fidelity. After each school visit, we'd like you to complete a short checklist to help us collect these data.

1. Was a date for the school visit set at least two weeks in advance?

Yes
No

2. If No, what was the reason.

3. Were the following items available or sent in advance of your visit? Tick all that apply.

TA Audit report (SLT self-evaluation)
Staff survey results report
Timetable for Reviewer's visit to school
Session 1 homework (e.g. shared vision; info about MITA development team)
School development/improvement plan
Evidence from a previous review of TA deployment/skills
TA deployment and/or recruitment policy
TA job descriptions or role profiles
Information relating to TA Induction and/or CPD
Information relating to SEND (e.g. policy; provision map; information report)
Information relating to Pupil Premium (e.g. PP statement)
Ofsted report
Other (please specify):

4. Please specify the components of the Review visit. Tick all that apply.

- Meeting with member(s) of SLT
- Meeting with the school's MITA Project Development Team
- Tour of the school
- Learning walk
- Observation (whole class lesson)
- Observation (intervention/small group/one-to-one session)
- Paperwork scrutiny (e.g. policies; job descriptions; timetables)
- Observation of unstructured activities involving TAs (e.g. break-time)
- Observation in SEND resource provision where TAs work
- Focus group/interview with teachers
- Focus group/interview with TAs
- Focus group/interview with pupils
- Focus group/interview with parents

5. Were school staff/pupils/parents informed of your visit?

School staff	Pupils	Parents
Yes	Yes	Yes
No	No	No
Unable to say	Unable to say	Unable to say

The expectation is that the Headteacher will lead the MITA Project in their school. However, some Heads may delegate this responsibility to another member of staff.

6. Is the Headteacher the MITA Project Lead (e.g. do they lead the Development Team)?

- Yes (go to Q10)
- No (go to next Q)

7. If No, which member of staff is the MITA Project Lead. Please indicate their role:

- Deputy or Assistant Headteacher
- SENCO/Inclusion Coordinator
- Phase/year/subject leader
- Other (please specify):

8. Is the MITA Project Lead part of the senior leadership team?

- Yes
- No
- Don't know

9. If an explanation has been provided for why the Headteacher is not the Project Lead, please add it here:

10. In your judgement, is the Headteacher sufficiently involved in the MITA Project in their setting?

- Yes (go to Q12)
- No (go to next Q)
- Not clear at this stage (go to Q12)

11. In your judgement, could the Headteacher's lack of involvement be detrimental to the success of the MITA Project in this school?

- Yes
- No
- Not clear at this stage

12. Please specify the level of involvement of the Headteacher and/or the MITA Project Lead during the school visit. Tick one level of engagement per person.

Level of engagement	Headteacher	MITA Project Lead (if Lead is not Head)
Involved for all relevant parts of visit		
Involved for most relevant parts of visit		
Involved for a few relevant parts of visit		
Was not involved in the visit		

13. If the Headteacher was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority):

14. If the MITA Project Lead was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority). *Only complete this question if the Project Lead is someone other than the Headteacher.*

15. Progress with homework tasks:

- a) Has the Headteacher informed the whole staff of the school's involvement in the MITA project? This should have been done before the first Reviewer visit.

Yes
No

- b) Has the school formed a MITA Project Development Team?

Yes
No
No, but this is scheduled to be complete by SLT session 2

- c) Has the school completed the visioning exercise? (Draft form is fine).

Yes
No
No, but this is scheduled to be complete by SLT session 2

16. Has a date been agreed for the next Reviewer visit?

Yes (go to next Q)
No (go to Q18)

17. If Yes, please add date of next Reviewer visit:

18. Please add any further comments in relation to the school's commitment to the project or fidelity to the MITA processes and principles:

NEXT STEPS:

Thanks for completing this checklist. These responses are an integral part of the data collection for the MITA project.

Please now complete your Notes of Visit report, and email to Tash (email address) by **20th October 2017**.

Please attach to your email a copy of the school's visioning exercise document.



MITA Reviewer post-visit checklist – VISIT 2

Why are we asking these questions?

In the world of evidence-informed practice, it's becoming increasingly clear that *how* schools implement a programme is as strong a determinant of success as the quality of the training and support they receive. There are things we think schools should be doing to give MITA the best chance of success, and we predict we'll see greater success in the schools that implement the guidance, etc. with greater faith and fidelity than those that don't. Seems obvious, but we nonetheless need to track the components of fidelity over the course of the year to help us understand more about how and why MITA works.

What do Reviewers need to do?

In most cases, you'll have a closer relationship with the school than the MITA team or the evaluation team. You'll also have a sense, based on your professional experience and judgement, of how well things are going for them. We need to tap into that to help us collect data on implementation fidelity. After each school visit, we'd like you to complete a short checklist to help us collect these data.

1. Was a date for the school visit set at least two weeks in advance?

Yes
No

2. If No, what was the reason.

3. Did the school send a copy of their MITA Action Plan in advance of your visit?

Yes
No

4. In your judgement, is the Headteacher sufficiently involved in the MITA Project in their setting?

Yes (go to Q6)
No (go to next Q)
Not clear at this stage (go to Q6)

5. In your judgement, could the Headteacher's lack of involvement be detrimental to the success of the MITA Project in this school?

- Yes
- No
- Not clear at this stage

6. Please specify the level of involvement of the Headteacher and/or the MITA Project Lead during the school visit. Tick one level of engagement per person.

Level of engagement	Headteacher	MITA Project Lead (if Lead is not Head)
Involved for all relevant parts of visit		
Involved for most relevant parts of visit		
Involved for a few relevant parts of visit		
Was not involved in the visit		

7. If the Headteacher was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority):

8. If the MITA Project Lead was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority). *Only complete this question if the Project Lead is someone other than the Headteacher.*

9. Progress with homework tasks from Sessions 1 and 2:

a) Has the school drafted an action plan?

- Yes
- No

b) Has the Headteacher informed the whole staff of the school's involvement in the MITA project?

- Yes
- No

c) Has the school formed a MITA Project Development Team?

- Yes (go to next Q)
- No (go to Qe)

d) Has the MITA Project Development Team met at least once this term?

- Yes
- No

e) Has the school completed the visioning exercise? **If yes, please send a copy of the visioning exercise with your Notes of Visit.**

Yes
No

10. Has a date been agreed for the next Reviewer visit?

Yes (go to next Q)
No (go to Q12)

11. If Yes, please add date of next Reviewer visit:

12. Please add any further comments in relation to the school's commitment to the project or fidelity to the MITA processes and principles:

NEXT STEPS:

Thanks for completing this checklist. These responses are an integral part of the data collection for the MITA project.

Please now complete your Notes of Visit report, and email to Tash (email address) by

20th October 2017.

Please attach to your email a copy of the school's visioning exercise document.



MITA Reviewer post-visit checklist – VISIT 3

Why are we asking these questions?

In the world of evidence-informed practice, it's becoming increasingly clear that *how* schools implement a programme is a strong determinant of overall success; equally as strong as the quality of the training and support they receive. There are things we think schools should be doing to give MITA the best chance of success, and we predict we'll see greater success in the schools that implement the guidance, etc. with greater faith and fidelity than those that don't. Seems obvious, but we nonetheless need to track the components of fidelity over the course of the year to help us understand more about how and why MITA works.

What do Reviewers need to do?

In most cases, you'll have a closer relationship with the school than the MITA team or the evaluation team. You'll also have a sense, based on your professional experience and judgement, of how well things are going for them. We need to tap into that to help us collect data on implementation fidelity. After each school visit, we'd like you to complete a short checklist to help us collect these data.

1. Was a date for the school visit set at least two weeks in advance?

Yes
No

2. If No, what was the reason.

3. Did the school send a copy of their MITA Action Plan in advance of your visit?

Yes
No

4. Please specify the components of the Review visit. Tick all that apply. Please note: there is no expectation that all of these components should have covered in Visit 3.

Meeting with member(s) of SLT
Meeting with the school's MITA Project Development Team
Tour of the school
Learning walk
Observation (whole class lesson)
Observation (intervention/small group/one-to-one session)

Paperwork scrutiny (e.g. policies; job descriptions; timetables)
 Observation of unstructured activities involving TAs (e.g. break-time)
 Observation in SEND resource provision where TAs work
 Focus group/interview with teachers
 Focus group/interview with TAs
 Focus group/interview with pupils

5. In your judgement, is the Headteacher sufficiently involved in the MITA Project in their setting?

Yes (go to Q8)
 No (go to next Q)
 Not clear at this stage (go to Q8)

6. In your judgement, could the Headteacher's lack of involvement be detrimental to the success of the MITA Project in this school?

Yes
 No
 Not clear

7. If Yes, please briefly describe the ways in which you feel the Headteacher's lack of involvement might be detrimental.

8. Please specify the level of involvement of the Headteacher and/or the MITA Project Lead during the school visit. Tick one level of engagement per person.

Level of engagement	Headteacher	MITA Project Lead (if Lead is not Head)
Involved for all relevant parts of visit		
Involved for most relevant parts of visit		
Involved for a few relevant parts of visit		
Was not involved in the visit		

9. If the Headteacher was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority):

10. If the MITA Project Lead was involved in only a few relevant parts of the visit or was not involved at all, please specify the reason why (e.g. illness; other meeting took priority). Only complete this question if the Project Lead is someone other than the Headteacher.

11. Please briefly describe how you feel the school has managed the MITA project this year, and your level of confidence going forward. For example, do you think the school is set fair for next year, or is there any causes for concern?

12. Has the school requested further Reviewer visits for the 2018/19 school year?

Yes (go to next Q)

No (go to Q14)

13. If Yes, please add date(s) of these Reviewer visit(s):

14. Please add any further comments in relation to the school's commitment to the project or fidelity to the MITA processes and principles:

NEXT STEPS:

Thanks for completing this checklist. These responses are an integral part of the data collection for the MITA project.

Please now complete your Notes of Visit report, and email to Tash (email address) as soon as possible, and at the latest by 31st May 2018.

Please attach to your email a copy of the school's action plan.

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