## INTEGRATING EVIDENCE INTO MATHS TEACHING

# A checklist for problem solving



#### Planning my approach

- What is the problem asking me to do?
- Have I seen problems before that look like this one?
- What mathematics might help me to solve this problem?
- What information in the problem is important?
- What information is less important?
- What might I need to work out?
- Would drawing a diagram help?

## Monitoring my progress

- Is my chosen strategy working?
- Are there different ways to solve this problem?
- Should I think about solving this problem in a different way, or should I stick with my plan?
- Has my teacher shown me anything which might help me here?
- Would it help if I asked another pupil to check my work so far?
- Looking back, have I made any obvious mistakes?

### **Evaluating my success**

- Does my answer make sense? How do I know?
- Is there any way that I can check my answer?
- Am I sure I have answered the question? (Re-read the problem and your solution to make sure!)
- Does my answer need units?
- Would another pupil understand my working out? (You could ask a friend to check.)
- Can I explain to someone else what I did and why I did it?
- Would a different way of solving this problem been quicker?
- Would I solve the problem in a different way if I tried it again?
- Could I share and discuss these different approaches with another pupil?



- Can you explain to someone else how you planned, monitored, and evaluated your maths learning today?
- What might you do differently next time?