

Problem Solving Scope & Sequence

Core Strategies

To be covered across the whole school within core content / outcomes

Problem Solving Strategy	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Identifying the Required Operation	→	→	→	→	→	→	→
Guess and Check	→	→	→	→	→	→	→

Problem Solving Strategy	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Brainstorm	↓	↓	↓	↓	↓	↓	↓
Acting Out & Make a Model	↓	↓	↓	↓	↓	↓	↓
Draw a Picture / Sketch / Diagram	↓	↓	↓	↓	↓	↓	↓
Look for a Pattern	↓	↓	↓	↓	↓	↓	↓
Guess & Check	↓	↓	↓	↓	↓	↓	↓
Draw a Table	↓	↓	↓	↓	↓	↓	↓
Make an Organised List	↓	↓	↓	↓	↓	↓	↓
Create a Tree Diagram	↓	↓	↓	↓	↓	↓	↓
Work Backwards	↓	↓	↓	↓	↓	↓	↓
Simplify the Problem	↓	↓	↓	↓	↓	↓	↓
Open-Ended Problem Solving	↓	↓	↓	↓	↓	↓	↓
Use Logical Reasoning	↓	↓	↓	↓	↓	↓	↓
Analyse & Investigate	↓	↓	↓	↓	↓	↓	↓

See

- Read once – to get an idea of the problem.
- Read twice – look for the clue words. Identify important data
- Read a third time – look for the question. Decide what you are trying to find.

Plan

- Consider what you will do.
- What strategy will best answer this question?



Identify the Required Operation



Guess & Check



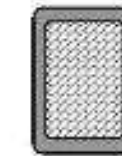
Brainstorming



Act Out or Make a Model



Draw a Picture / Sketch / Diagram



Look for a Pattern



Guess & Check



Draw a Table



Make an Organised List



Create a Tree Diagram



Work Backwards



Simplify the Problem



Open-Ended Problem Solving



Use Logical Reasoning

Do

- Carry out the plan.
- Change the plan if necessary

Check

- Reread the question.
- Have you answered the question?
- Does your answer make sense?
- Write your answer in a complete sentence.