

Graphic Organisers

Maths Workbook

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Using Graphic Organisers

The use of graphic organisers is an important part of many maths processes. Students learn to:

- understand ways of representing numbers
- show relationships among numbers
- break apart and analyse each step of maths processes
- demonstrate understandings of processes
- communicate maths concepts and processes
- visualise patterns and relations
- represent mathematical ideas in a variety of ways
- explain problem-solving strategies

Analysis and communication are critical to all areas of mathematics. The US National Council of Teachers of Mathematics encourages the use of diagrams and visuals to help students develop problem-solving abilities. In addition, communication is identified as a key curriculum standard for mathematics. Graphic organisers help students analyse the steps in mathematical thinking and communicate with words, numbers and symbols for each step of their problem-solving process.

Graphic Organisers for Maths is one workbook resource every maths teacher needs. Here are **47** graphic organisers for guiding the problem-solving process, using various problem-solving processes, and explaining or demonstrating specific maths concepts and processes. And that's not all! There are also **nine** pages of check-lists, guides and tips to assist maths problem-solvers as they work – including a problem-solving scoring rubric to help evaluate student progress. Use these organisers and tools to spark student thinking and enhance their problem-solving skills.

Help students organise for success!

**Graphic Organisers
for Problem-Solving Approaches and
Strategies pages 3–24**

**Graphic Organisers for Explaining Maths Concepts and
Processes pages 25–40**

**Tools, Tips and Blank Graphic Organisers
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Graphic Organisers

for

Problem-Solving Approaches and Strategies

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Round, Estimate & Check (use estimation).....	10
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Extend a Pattern (extend a pattern to solve)	15
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Graphic Organisers

for

Explanations of Maths Concepts and Processes

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Tools, Tips & More

Graphic Organisers

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