

# ARBs collections - Maths Level 3

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### Collection of Mathematics ARBs at Level 3

The ARBs are an online repository of resources designed for teachers to use in the classroom for Maths, English, and Science.

Here is a collection of formative assessment resources for learning at Level 3.

Resources can be downloaded (to be completed on paper), or students can complete them online. At the end of the task, students can email or download their results.

Number	Patterns	Shape	Maps and Coordinates
<b>Making a cake</b> <i>Paper/Digital</i> Work out the extra amounts of ingredients needed for a recipe and complete a table of results.	<b>Missing numbers and rules</b> <i>Paper/Digital</i> Identify missing numbers and the rule for a growing number pattern.	<b>What shape am I?</b> <i>Digital</i> Using clues about shape properties to identify a given shape.	<b>Directions to food</b> <i>Paper/Digital</i> Describe the compass direction and distance to objects on a grid.
<b>Saving for a pet</b> <i>Paper</i> Solve addition story problems involving numbers of different magnitude to explore their place value understanding.	<b>Stick patterns and rules</b> <i>Paper/Digital</i> Describe a functional rule for two spatial patterns.	<b>Describing 3-D shapes</b> <i>Paper/Digital</i> Give the number of vertices, edges and faces, and complete sentences to describe different 3-dimensional shapes.	<b>Battleship grids</b> <i>Digital</i> Give grid references, and drag and drop grid references onto a grid.
<b>School garden</b> <i>Paper</i> Answer maths problems involving multiplication and show their strategies.	<b>Stick patterns and rules II</b> <i>Paper/Digital</i> Describe a functional rule for two spatial patterns.	<b>Corners, faces and edges II</b> <i>Paper/Digital</i> Identify the shape name, the number of faces, edges and vertices of a selection of everyday objects.	<b>More battleships</b> <i>Paper/Digital</i> Identify positions on a grid using grid references.
<b>Fruit salad</b> <i>Digital</i> Select the correct fraction of fruits to click and drag into a bowl.	<b>Stacking cans</b> <i>Paper</i> Work out the number of cans in a stack of a given height, and complete a sentence that states the rule.	<b>Rectangle or not?</b> <i>Paper/Digital</i> Decide whether shapes rectangles or not and explain their reasoning.	<b>Treasure Island II</b> <i>Paper</i> Identify distances and mark positions on a treasure map with a scale.
<b>Toy holiday</b> <i>Digital</i> Select the correct fraction of toys to click and drag into a suitcase.	<b>Transforming patterns IV</b> <i>Paper/Digital</i> Identify what transformations are used to continue a pattern.	<b>Triangle or not?</b> <i>Paper/Digital</i> Select shapes that are similar but not triangles and explain what makes them	

**Sharing chocolate**

*Paper/Digital*

Answer questions by dividing a given amount of chocolate bars equally, and finding a fraction of the total amount.

**Number machines II** triangles or not

*Paper*

Identify the missing part of equations shown as number machines.

**Calculator patterns**

*Paper*

Complete rules for number patterns generated using a calculator.

**One cut**

*Paper*

Draw the cross section indicated on 6 different food items.

**Design a box**

*Paper - Practical task*

Design a net for a lidded cardboard cube to hold a tennis ball. They then cut out and construct the cube.

**Tangram shapes**

*Paper - Practical task*

Cut out tangram shapes and arrange them to fit two different ways into rectangle outlines and once into a triangle outline.