

Geometry progression map 2024

Reception

Match and compare

Match objects

Match pictures and objects

Identify a set

Sort objects to a type

Explore sorting techniques

Create sorting rules

Compare amounts

Circles & triangle

Identify and name circles and triangles

! Compare circles and triangles

! Shapes in the environment

! Describe position

Shapes with 4 sides

Identify and name shapes with 4 sides

! Combine shapes with 4 sides

! Shapes in the environment

! My day and night

Exploring 3D shapes

Recognise and name 3-D shapes

! Find 2-D shapes within 3-D shapes

! Use 3-D shapes for tasks

! 3-D shapes in the environment

! Identify more complex patterns

! Copy and continue patterns

Patterns in the environment

Manipulate, compose & decompose

Select shapes for a purpose

! Rotate shapes

! Manipulate shapes

! Explain shape arrangements

! Compose shapes

! Decompose shapes

! Copy 2-D shape pictures

! Find 2-D shapes within 3-D shapes

Visualise, build & map

Identify units of repeating patterns

! Create own pattern rules

! Explore own pattern rules

! Replicate and build scenes and constructions

! Visualise from different positions

! Describe positions

! Give instructions to build

! Explore mapping

! Represent maps with models

Year 1

Recognise and name 3-D shapes

Describe turns

Sort 3-D shapes

Describe position – left and right

Recognise and name 2-D shapes

Describe position – forwards and backwards

Sort 2-D shapes

Describe position – above and below

Patterns with 2-D and 3-D shapes

Ordinal numbers

Year 2

Recognise 2-D and 3-D shapes

Count edges on 3-D shapes

Language of position

Count sides on 2-D shapes

Count vertices on 3-D shapes

Describe movement

Count vertices on 2-D shapes

Sort 3-D shapes

Describe turns

Draw 2-D shapes

Make patterns with 2-D and 3-D shapes

Describe movement and turns

Lines of symmetry on shapes

Use lines of symmetry to complete shapes

Shape patterns with turns

Sort 2-D shapes

Count faces on 3-D shapes

Year 3

Turns and angles

Right angles

Compare angles

Measure and draw accurately

Horizontal and vertical

Parallel and perpendicular

Recognise and describe 2-D shapes

Draw polygons

Recognise and describe 3-D shapes

Make 3-D shapes

Year 4

Understand angles as turns

Identify angles

Compare and order angles

Triangles

Quadrilaterals

Polygons

Lines of symmetry

Complete a symmetric figure

Describe position using coordinates

Plot coordinates

Draw 2-D shapes on a grid

Translate on a grid

Describe translation on a grid

Year 5

Understand and use degrees

Classify angles

Estimate angles

Measure angles up to 180°

Draw lines and angles accurately

Calculate angles around a point

Calculate angles on a straight line

Lengths and angles in shapes

Regular and irregular polygons

3-D shapes

Read and plot coordinates

Problem solving with coordinates

Translation

Translation with coordinates

Lines of symmetry

Reflection in horizontal and vertical lines

Year 6

Measure and classify angles

Calculate angles

Vertically opposite angles

Angles in a triangle

Angles in a triangle – special cases

Angles in a triangle – missing angles

Angles in a quadrilateral

Angles in polygons

Circles

Draw shapes accurately

Nets of 3-D shapes

The first quadrant

Read and plot points in four quadrants

Solve problems with coordinates

Translations

Reflections