

Contextual Maths in UKS2 Topics

Topics present abundant opportunities for contextual maths. Have fun with meaningful maths and explore a cross-curricular topic at the same time.



| Maths content | Maths references | Topic |
|--|---|---|
| Table information, co-ordinates, graphs | <ul style="list-style-type: none"> • Complete, read and interpret information in tables. • Connect their work on coordinates and scales to their interpretation of graphs. | Comparing People and Places Block A: Local area study wrht.org.uk/local |
| Area, 4 operations, problem solving | <ul style="list-style-type: none"> • Solve comparison, sum and difference problems. • Complete, construct, read and interpret information in tables, pie charts and line graphs and use these to solve problems. • Estimate the area of irregular shapes. • Use all four operations to solve problems involving measure using decimal notation, including scaling. • Use, read, write and convert between standard units, converting measurements of length from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. | Comparing People and Places Block D: Amazon Basin wrht.org.uk/amazon |
| Measurement investigations | <ul style="list-style-type: none"> • Convert between different units of metric measure. Use all four operations to solve problems involving measure. | Dinosaurs and Fossils Block C: Fossil footprints wrht.org.uk/footprints |
| Area of rectangles, area formulae, 3D shapes and nets | <ul style="list-style-type: none"> • Calculate the area of rectangles. • Recognise when it is possible to use a formula for area. • Identify 3D shapes, from 2D representations. Recognise, describe and build simple 3-D shapes, including making nets. | Ancient Egypt Block C: Pharaohs and Pyramids wrht.org.uk/pyramid |
| Solving problems using 4 operations | <ul style="list-style-type: none"> • Solve problems involving addition, subtraction, multiplication and division. | Ancient Egypt Block F: Daily life wrht.org.uk/dailylife |
| 3D and 2D shapes and nets | <ul style="list-style-type: none"> • Identify 3D shapes from 2D representations. • Draw 2D shapes using given dimensions and angles. • Recognise, describe and build simple 3D shapes, including making nets. | Ancient Sumer Block C: Religion wrht.org.uk/religion |
| | | <i>Continued</i> |

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| 3D and 2D shapes, area, angles and problem solving | <ul style="list-style-type: none"> Solve problems involving addition, subtraction, multiplication and division. Know angles are measured in degrees. Identify angles. Calculate areas of rectangles. Calculate areas of triangles. Recognise angles meeting at a point total 360°. | Ancient Sumer Block D: Inventions wrht.org.uk/inventions |
| Create and analyse spreadsheets | <ul style="list-style-type: none"> Complete, read and interpret information in tables. Interpret and construct pie charts and line graphs and use these to solve problems. Use simple formulae. | Computational Thinking and Creativity Block C: Spreadsheets and Databases wrht.org.uk/spreadsheets |
| Use knowledge of 3D shapes to create online buildings | <ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations. Solve problems involving the calculation and conversion of units of metric measure. | Computational Thinking and Creativity Block D: 3D Modelling wrht.org.uk/3dmodels |
| Numbers, positive and negative | <ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Multiply and divide numbers mentally drawing upon known facts. | The Shang Dynasty Block A: Timeline wrht.org.uk/shang |
| Problem solving, brain teasers, division and angles | <ul style="list-style-type: none"> Pupils divide numbers mentally drawing upon known facts; draw given angles, and measure them in degrees. Pupils should consolidate their understanding of ratio when comparing quantities, sizes and scale drawings by solving a variety of problems. | The Shang Dynasty Block C: Writing and Shang Calendar wrht.org.uk/writing |
| Ratios, scale, diagrams | <ul style="list-style-type: none"> Pupils should consolidate their understanding of ratio when comparing quantities, sizes and scale drawings by solving a variety of problems. | The Shang Dynasty Block F: Worship wrht.org.uk/worship |
| | | <i>Continued</i> |

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| 3D shapes, cuboids, making nets. | <ul style="list-style-type: none"> • (Y5) Identify 3D shapes, including cuboids, from 2D representations. • (Y6) Recognise and build simple 3D shapes, including making nets. • (Y6) Solve problems involving the relative sizes of two quantities. | Indus Valley Block B: Indus Valley Cities wrht.org.uk/cities |
| Using Maya numerals, reasoning, maths systems. | <ul style="list-style-type: none"> • Appreciate the beauty and power of mathematics • Develop their ability to solve a wider range of problems including increasingly complex properties of numbers and arithmetic. • Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language. | The Maya Block D: Maya Maths and Calendar wrht.org.uk/mayamaths |
| Data handling. | <ul style="list-style-type: none"> • Find area by counting squares • Construct pie charts and use them to solve problems; Identify fractions or percentages. | Geographical Skills wrht.org.uk/geoskills3 |
| Understand the geometry of a geodesic dome. | <ul style="list-style-type: none"> • Identify 3-D shapes, know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles, and measure them in degrees. | Stone Age to Iron Age Britain Block B: Ice Age Art wrht.org.uk/iceageart |