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| Calculate a missing angle in a right-angled triangle using Trigonometry. | Calculate a missing side of a right-angled triangle using Trigonometry. |
| Draw and interpret a cumulative frequency curve. | Draw and interpret a box-plot (box and whisker diagram). |
| Calculate the inter-quartile range of a set of data. | Use a tree-diagram for probability with replacement. |

UNITED KINGDOM OF
GREAT BRITAIN
AND NORTHERN IRELAND



PASSPORT
TO GCSE GRADE B

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Name: _____

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| Simplify fraction multiplication calculations. | Write a recurring decimal as a fraction. |
| Find the original price of an object before a percentage increase/decrease. | Use simple and compound interest. Compare the answers. |
| Simplify surd calculations. | Use the laws of indices when multiplying, dividing and with brackets. |
| Solve an equation involving an algebraic fraction. | Understand and use “the difference of two squares”. |
| Factorise a quadratic expression. | Solve quadratic equations using a graph or factorisation. |
| Change the subject of an equation. | Solve problems involving inequalities. |

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| Solve simultaneous equations by elimination or substitution. | Solve simultaneous equations using a graph. |
| Show inequalities on a graph. | Substitute numbers into a cubic function (and draw the graph). |
| Know what a reciprocal to a function will look like, graphically. | Identify when an equations of straight lines will be parallel or perpendicular. |
| Sketch linear graphs. | Know and use the theorems about angles in a circle, created by different lines. |
| Calculate the volume and surface area of cylinders. | Identify and describe when one shape is similar to another. |
| Understand and use the conditions for congruence. | Enlarge a shape using a centre of enlargement with a negative scale factor. |

