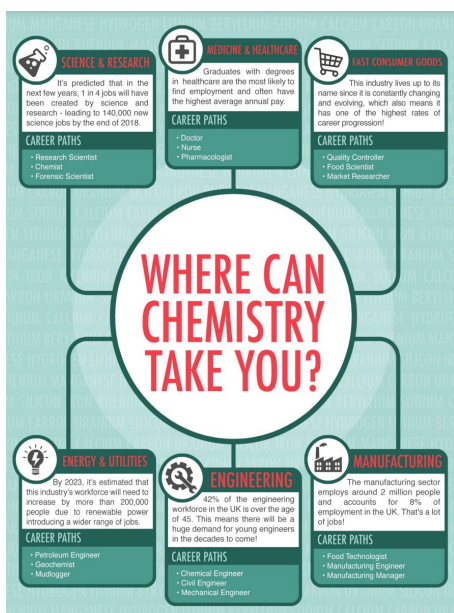
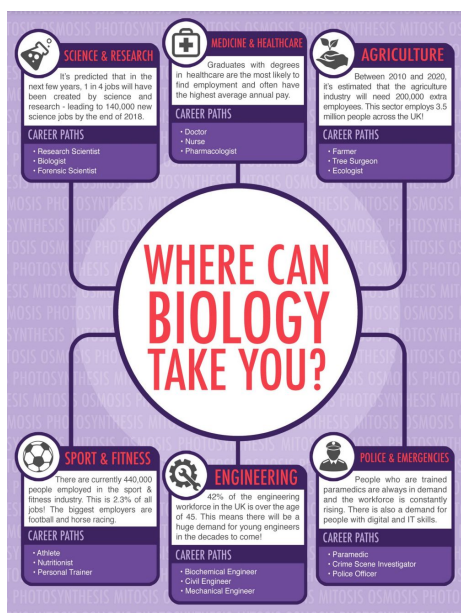


What next in Science?



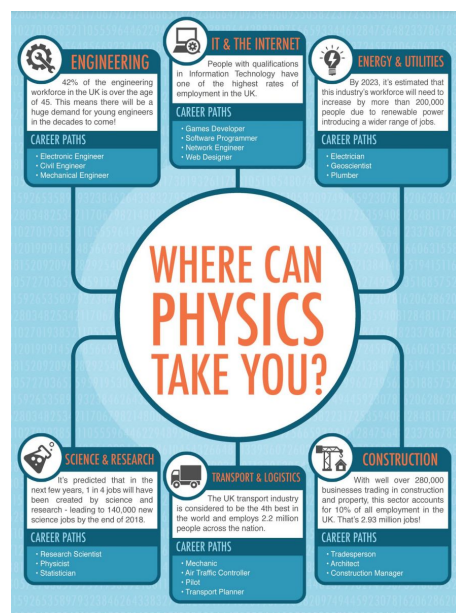
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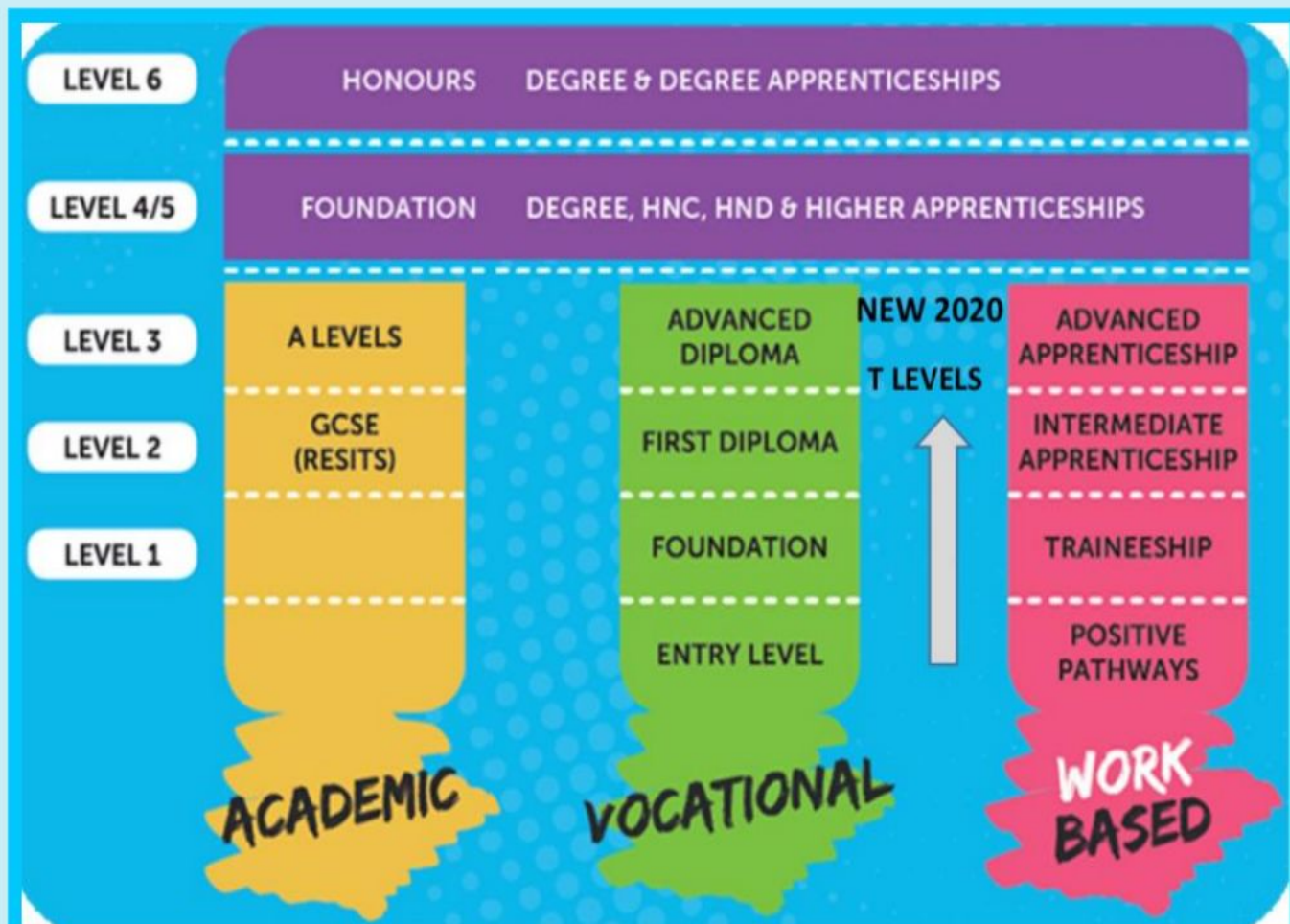
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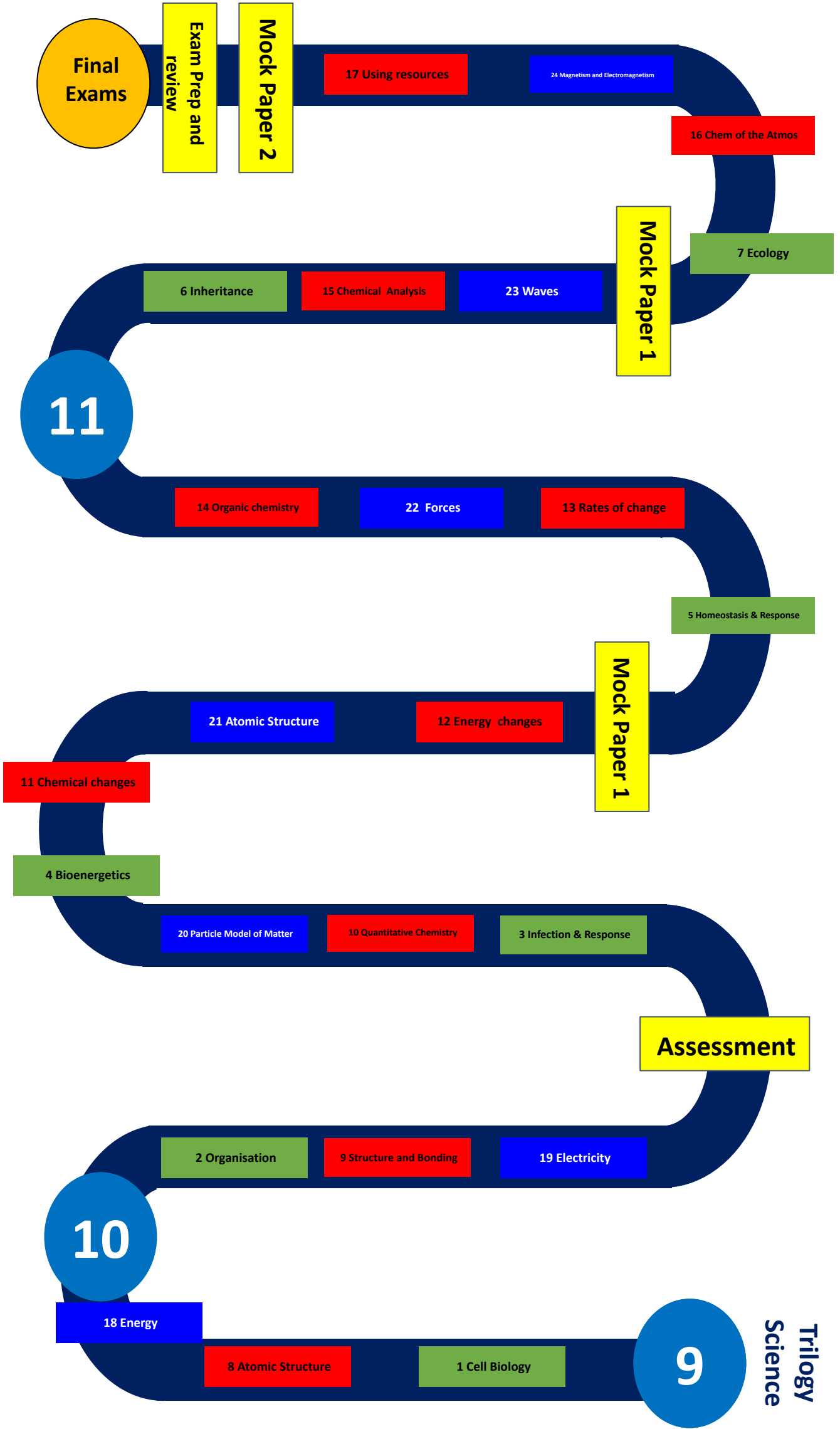


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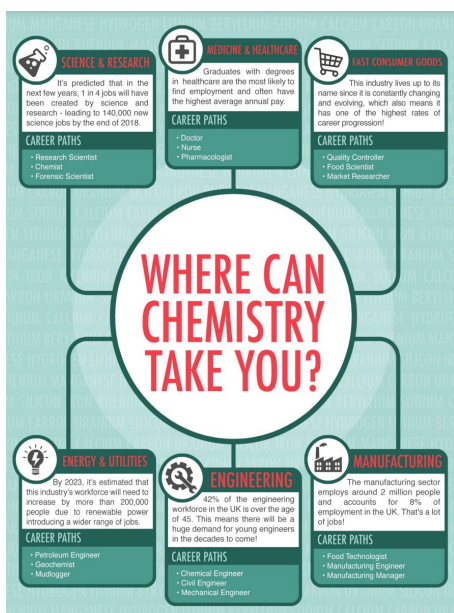
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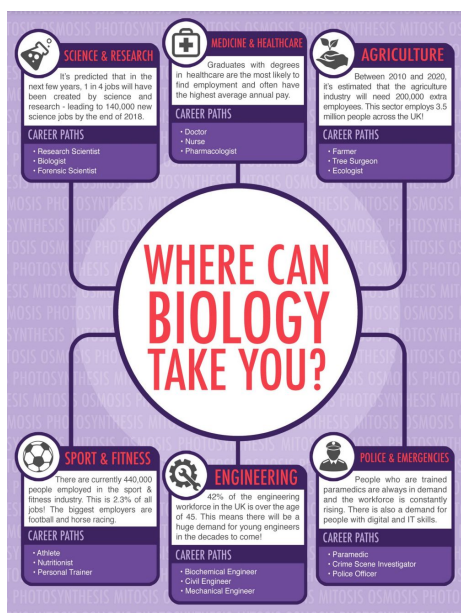


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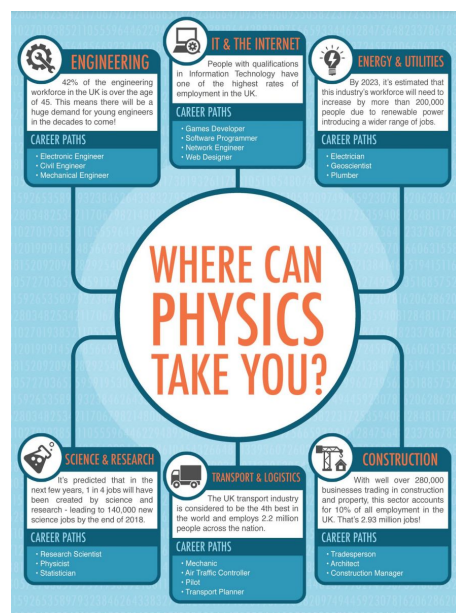
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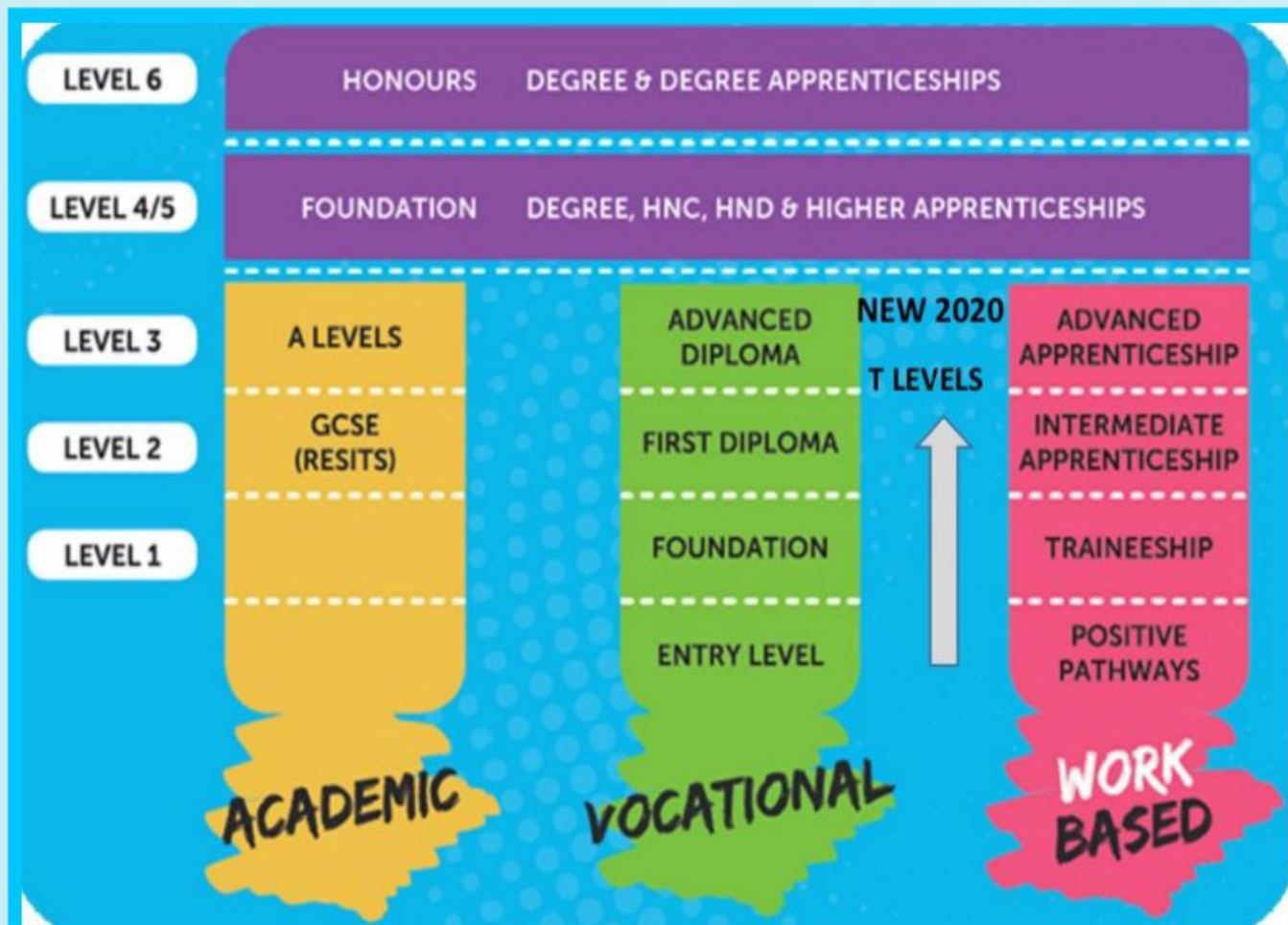
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Science & Maths

1	Arithmetic and numerical computation
a	Recognise and use expressions in decimal form
b	Recognise and use expressions in standard form
c	Use ratios, fractions and percentages
d	Make estimates of the results of simple calculations
2	Handling data
a	Use an appropriate number of significant figures
b	Find arithmetic means
c	Construct and interpret frequency tables and diagrams, bar charts and histograms
h	Make order of magnitude calculations
3	Algebra
a	Understand and use the symbols: =, <, <<, >>, >, ≈, ~
b	Change the subject of an equation
c	Substitute numerical values into algebraic equations using appropriate units for physical quantities
4	Graphs
a	Translate information between graphical and numeric form
b	Understand that $y = mx + c$ represents a linear relationship
c	Plot two variables from experimental or other data
d	Determine the slope and intercept of a linear graph
e	Draw and use the slope of a tangent to a curve as a measure of rate of change
5	Geometry and trigonometry
b	Visualise and represent 2D and 3D forms including two dimensional representations of 3D objects
c	Calculate areas of triangles and rectangles, surface areas and volumes of cubes

Skills to get grades



We have taken the Ofqual grade descriptors and reorganised them into the four threads covered by the statements. The wording has remained unchanged.

OFQUAL Grade descriptors				
	Knowledge and understanding	Use of mathematics	Data analysis	Evaluation of experimental methods
Grades 8 and 8-8 Candidates will be able to	Demonstrate relevant and comprehensive knowledge and understanding and apply these correctly to both familiar and unfamiliar contexts using accurate scientific terminology	Use a range of mathematical skills to perform complex scientific calculations	Critically analyse qualitative and quantitative data to draw logical, well-evidenced conclusions	Critically evaluate and refine methodologies, and judge the validity of scientific conclusions
Grades 5 and 5-5 Candidates will be able to	Demonstrate mostly accurate and appropriate knowledge and understanding and apply these mostly correctly to familiar and unfamiliar contexts, using mostly accurate scientific terminology	Use appropriate mathematical skills to perform multi-step calculations	Analyse qualitative and quantitative data to draw plausible conclusions supported by some evidence	Evaluate methodologies to suggest improvements to experimental methods, and comment on scientific conclusions
Grades 2 and 2-2 Candidates will be able to	Demonstrate some relevant scientific knowledge and understanding using limited scientific terminology	Perform basic calculations	Draw simple conclusions from qualitative or quantitative data	Make basic comments relating to experimental methods