	E1-3	1-2	3-4	5-6	7-8	9
AO1 – Demonstrate knowledge and understanding	Demonstrate some relevant scientific knowledge using limited scientific terminology.	Demonstrate some relevant scientific knowledge and understanding using limited scientific terminology.	Demonstrate some accurate and appropriate knowledge and understanding.	Demonstrate mostly accurate and appropriate knowledge and understanding.	Demonstrate relevant and comprehensive knowledge and understanding.	Demonstrate accurate, relevant and comprehensive knowledge and understanding.
AO2 – Apply knowledge and understanding	Apply the knowledge to familiar contexts using limited scientific terminology.	Apply the knowledge and understanding to some familiar contexts using limited scientific terminology.	Apply the knowledge and understanding to some familiar and unfamiliar contexts using some accurate scientific terminology.	Apply knowledge and understanding mostly correctly to familiar and unfamiliar contexts, using mostly accurate scientific terminology.	Apply knowledge and understanding correctly to both familiar and unfamiliar contexts using accurate scientific terminology.	Apply knowledge and understanding accurately to a wide range of familiar and unfamiliar contexts using comprehensive scientific terminology.
AO3 – Analyse information and ideas	Draw simple conclusions from qualitative data.

Make basic comments relating to experimental methods. | Draw simple conclusions from qualitative or quantitative data.

Make simple comments relating to experimental methods. | Draw accurate conclusions from quantitative and qualitative data.

Make accurate comments relating to methodology and conclusions, and suggest simple improvements. | 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. | Critically analyse qualitative and quantitative data to draw logical, well-evidenced conclusions.

Critically evaluate and refine methodologies, and judge the validity of scientific conclusions. | Critically analyse both primary and secondary qualitative and quantitative data to draw valid, logical, well-evidenced conclusions.

Use secondary data to validate scientific conclusions. |
| **Maths skills in Science** | Use appropriate mathematical skills such as addition, subtraction, multiplication and division. | Use appropriate mathematical skills to perform basic calculations. | Use appropriate mathematical skills to perform simple calculations. | Use appropriate mathematical skills to perform multi-step calculations. | Use a range of mathematical skills to perform complex scientific calculations. | Use a wide range of mathematical skills to perform complex scientific calculations. |