

KS3 level	SCIENCE Scientific knowledge and understanding	SCIENCE Descriptions and explanations	SCIENCE Mathematical skills	SCIENCE Analysis of data	SCIENCE Evaluation of practical methods and conclusions
7	Accurate, relevant and mostly comprehensive knowledge and understanding applied mostly correctly to both familiar and unfamiliar contexts Accurate scientific terminology	Accurate, logical and detailed descriptions. Increasing complex explanations and arguments	Use of a range of mathematical skills. Perform complex multi-step scientific calculations	Critically analyses qualitative and quantitative data. Logical, well-evidenced conclusions.	Critically evaluate and refine practical methodologies. Make more complex judgements on the accuracy and validity of scientific conclusions
6	Accurate and relevant knowledge and understanding applied mostly correctly to both familiar and unfamiliar contexts. Accurate scientific terminology.	Accurate, logical and detailed descriptions. Straightforward explanations.	Use a range of mathematical skills. Perform multi-step scientific calculations.	Analyse qualitative and quantitative data. Logical conclusions, supported by evidence.	Suggest improvements and developments to experimental methods.  Comment on the accuracy and validity of scientific conclusions.
5	Mostly accurate and appropriate knowledge and understanding applied mostly correctly to both familiar and unfamiliar contexts. Mostly accurate scientific terminology	Mostly accurate and logical descriptions which includes some relevant detail. Simple explanations.	Use appropriate mathematical skills. Perform multi-step calculations.	Analyse qualitative and quantitative data. Plausible conclusions supported by some evidence.	Suggest improvements to experimental methods. Comment on the accuracy of scientific conclusions
4	Some accurate and appropriate knowledge and understanding applied to some familiar and unfamiliar contexts. Some accurate use of scientific terminology	Some logical descriptions which include some accurate and relevant detail.	Use appropriate mathematical skills to perform calculations	Interpret qualitative and quantitative data. Conclusions supported by some evidence.	Suggest some improvements to experimental methods. Comment on the accuracy of scientific conclusions

3	Some relevant scientific knowledge and understanding applied to familiar contexts but more rarely to unfamiliar contexts. Some accurate use of scientific terminology.	Descriptions are often partial and lack relevant detail	Use appropriate mathematical skills to perform calculations with scaffolding.	Simple conclusions. Some evidence offered in support.	Suggest some limited improvements to experimental methods. Some comment on the accuracy of scientific conclusions.
2	Some relevant scientific knowledge and understanding applied to familiar contexts. Limited use of scientific terminology.	Descriptions are usually missing or partial and lack relevant detail.	Perform some basic calculations with guidance.	Simple conclusions. Little evidence offered in support.	Basic comments relating to experimental methods. Limited suggestions of improvements or comments on accuracy.
1	Some relevant scientific knowledge and understanding in familiar contexts. Scientific terminology used rarely.	Descriptions very limited or missing.	Perform some basic calculations with guidance.	Limited conclusions. No evidence in support.	Simple comments relating to experimental methods only.