

Physics Descriptors

KS3 Grade 1-2 Years 7/8	KS3 Grade 3-4 Years 7/8/9/10	KS3 Grade 5-6 Years 8/9/10/11
Demonstrates some relevant scientific knowledge and understanding using limited scientific terminology.	Demonstrates some accurate and appropriate knowledge and understanding and applies these mostly correctly to familiar contexts, using some scientific terminology.	Demonstrates largely accurate and appropriate knowledge and understanding and applies these largely correctly to familiar and unfamiliar contexts, using largely accurate scientific terminology
Performs basic calculations	Uses appropriate mathematical skills to perform calculations	Uses a range of appropriate mathematical skills to perform multi-step calculations.
Able to recall and/or use equations correctly to perform basic calculations.	Decides on appropriate formula to use based on data provided. Recall of formula where necessary. Able to rearrange equations effectively and add correct units in some cases.	Decides and uses appropriate formula based on data provided. Able to rearrange equations effectively and add correct units in most cases. Use of significant figures and prefixes mostly correct.
Presents simple scientific data in more than one way, including tables and bar charts.	Decides on the most appropriate formats to present sets of scientific data (*such as using line graphs for continuous variables).	Decides on the most appropriate formats to present sets of scientific data * Able to decide on suitable axis with correct labels and units.
Draw simple conclusions from descriptive or numerical data	Analyse descriptive and numerical data to draw correct conclusions supported by some evidence	Analyse descriptive and numerical data to draw plausible conclusions supported by detailed evidence
Makes valid basic comments relating to experimental methods	Evaluates methods to suggest basic improvements to experiments and makes valid comments on scientific conclusions.	Evaluate methods to suggest significant improvements to experiments and provides valid, detailed comments on scientific conclusions.
Students represent things in the real world using simple physical models.	Use simple models to describe scientific ideas.	Use abstract ideas or models when describing processes or phenomena.