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Year 7 Science assessment criteria – applies to all Y7 units

	Development of Scientific Thinking	Experimental Skills and Strategies	Analysis and Evaluation	Communication in Science
Excellence	Can develop an explanation that uses abstract ideas or models, identifying their strengths and weaknesses. Can explain how ideas change as technology develops, considering ethical issues.	Can use scientific ideas to develop hypotheses and identify variables. Can plan an experiment that will allow collection of valid results and suggest amendments after. Can write a risk assessment	Can present data in both graphs, tables, and describe some patterns using data as evidence, use arithmetic for simple calculations (averages) Able to convert simple units.	Can present more complex ideas in own words and select from different resources to make own notes and reference these. Give balanced arguments for some different issues.
Secure	Use some scientific language, simple models and diagrams to explain scientific ideas. Have some consideration of ethics	Can follow a plan for an experiment, can say what the three variables are and give a simple hypothesis. Can identify some risks and hazards,	Decide on the most appropriate formats to present sets of scientific data, such as using line graphs for continuous variables	Can select different sources of information and reference them in a simple way. Give some pros and cons for simple issues.
Developing	Can describe some scientific ideas using scientific terms and diagrams. Can identify when a model has been used and distinguish between fact and theory.	Can follow a basic practical with some guidance, make simple predictions and identify some dangers,	Present simple scientific data in more than one way, including via tables and bar chart, can do some analysis using basic arithmetic.	Use resources to identify relevant information and use these to make simple notes. Can use some key terms inconsistently,
Foundation	Can draw simple diagrams and name some processes	Can follow simple ½ step practical instructions and safety rules.	Can record at least one piece of data and make simple observations with prompts.	Match simple key terms to definitions, use the internet to find information and highlight key words.

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Year 8 Science assessment criteria – applies to all Y8 units

	Development of Scientific Thinking	Experimental Skills and Strategies	Analysis and Evaluation	Communication in Science
Excellence	Appreciate the power and limitations of science and consider ethical issues. Evaluate models and use diagrams to explain scientific ideas.	Plan a method that will allow valid results and analyse how well it supports a hypothesis. Also able to discuss techniques and justify choice of variables.	Explain patterns in data and link these to data points, using this to analyse if results are valid and accurate. Identify anomalies and remove these when calculating averages.	Can present complex ideas in students own words linking to other scientific ideas, using a wide variety of terminology correctly. Successfully make own notes using referencing accurately, providing balanced arguments about ideas.
Secure	Can develop an explanation that uses abstract ideas or models, identifying their strengths and weaknesses. Can explain how ideas change as technology develops, considering ethical issues.	Can use scientific ideas to develop hypotheses and identify variables. Can plan an experiment that will allow collection of valid results and suggest amendments after. Can write a risk assessment	Can present data in both graphs, tables, and describe some patterns using data as evidence, use arithmetic for simple calculations (averages) Able to convert simple units.	Can present more complex ideas in own words and select from different resources to make own notes and reference these. Give balanced arguments for some different issues.
Developing	Use some scientific language, simple models and diagrams to explain scientific ideas. Have some consideration of ethics	Can follow a plan for an experiment, can say what the three variables are and give a simple hypothesis. Can identify some risks and hazards,	Decide on the most appropriate formats to present sets of scientific data, such as using line graphs for continuous variables	Can select different sources of information and reference them in a simple way. Give some pros and cons for simple issues.
Foundation	Can describe some scientific ideas using scientific terms and diagrams. Can identify when a model has been used and distinguish between fact and theory.	Can follow a basic practical with some guidance, make simple predictions and identify some dangers,	Present simple scientific data in more than one way, including via tables and bar chart, can do some analysis using basic arithmetic.	Use resources to identify relevant information and use these to make simple notes. Can use some key terms inconsistently,