

## SCIENCE LEARNING PATH STATEMENTS YEAR 8

<b>YEAR 8</b>	<b>SCIENCE LEARNING PATH 1 LP1</b>	<b>SCIENCE LEARNING PATH 2 LP2</b>
St 1	Testing Hypotheses: Create a hypothesis supported by a range of scientific knowledge	Testing Hypotheses: Create a hypothesis that is supported by some scientific knowledge
St 2	Collecting Data: In investigations, collect a range of data that is accurate and precise using appropriate equipment	Collecting Data: In investigations, collect a range of data that is accurate and precise using appropriate equipment
St 3	Modelling: Evaluate scientific models and show understanding of their limitations	Modelling: Evaluate scientific models and show understanding of their limitations.
St 4	Designing Investigations: Given a hypothesis, create an investigation that can be tested, with an understanding of some variables	Designing Investigations: Given a hypothesis, partially create an investigation that can be tested, with an understanding of some variables
St 5	Processing and Presenting Data: Process and present a range of scientific data	Processing and Presenting Data: With guidance - process and present a range of scientific data
St 6	Drawing Conclusions: Evaluate data and draw a correct scientific conclusion	Drawing Conclusions: Evaluate data and draw partially correct scientific conclusions
St 7	Uncertainties and Evaluations: Some awareness and application of a range of evaluation terms	Uncertainties and Evaluations: Some awareness and application of a range of evaluation terms
St 8	Knowledge of Biology: Good awareness of a range of biological terms	Knowledge of Biology: Fundamental awareness of a range of biological terms
St 9	Knowledge of Chemistry: Good awareness of a range of chemical terms	Knowledge of Chemistry: Fundamental awareness of a range of chemical terms
St 10	Knowledge of Physics: Good awareness of a range of physics' terms	Knowledge of Physics: Fundamental awareness of a range of physics' terms

## SCIENCE LEARNING PATH STATEMENTS YEAR 8

<b>YEAR 8</b>	<b>SCIENCE LEARNING PATH 3 LP3</b>	<b>SCIENCE LEARNING PATH 4 LP4</b>
St 1	Testing Hypotheses: Create a hypothesis with some supporting scientific knowledge	Testing Hypotheses: Create a simple hypothesis
St 2	Collecting Data: In investigations, accurately collect a range of data by using appropriate equipment	Collecting Data: In investigations, collect some data using relevant equipment
St 3	Modelling: Evaluate scientific models and show some understanding of their limitations	Modelling: Identify differences between scientific models and real life
St 4	Designing Investigations: Given a hypothesis, partially create an investigation that can be tested, with an understanding of some variables	Designing Investigations: Given a hypothesis, create a simple investigation to test the hypothesis
St 5	Processing and Presenting Data: With guidance - process and present a range of scientific data	Processing and Presenting Data: With guidance - process and present a limited range of scientific data
St 6	Drawing Conclusions: Evaluate data and draw partially correct scientific conclusions	Drawing Conclusions: Evaluate data with guidance and draw scientific conclusions
St 7	Uncertainties and Evaluations: Awareness of a range of evaluation terms with limited application	Uncertainties and Evaluations: Limited awareness of a range of evaluation terms
St 8	Knowledge of Biology: Some awareness of a range of biological terms	Knowledge of Biology: Limited awareness of a range of biological terms
St 9	Knowledge of Chemistry: Some awareness of a range of chemical terms	Knowledge of Chemistry: Limited awareness of a range of chemical terms
St 10	Knowledge of Physics: Some awareness of a range of physics' terms	Knowledge of Physics: Limited awareness of a range of physics' terms

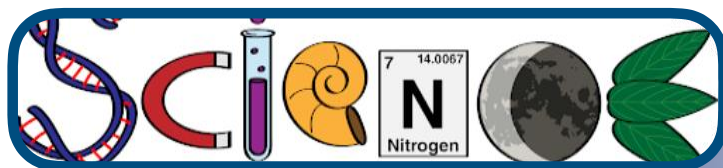
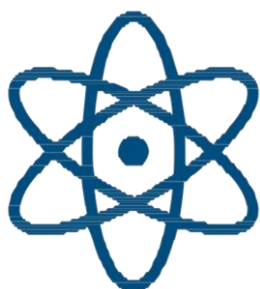
The table below summarises the different skills and knowledge assessed during Year 8. You can use the information to review which topics you have done well in and which might need further work.

Learning Path Statement Yr8	Science Topic	KS3 BBC Bitesize Link
St 1	Testing Hypotheses	<a href="#">Writing a Hypothesis and Prediction</a>
St 2	Designing Investigations	<a href="#">Planning an Experiment</a>
St 3	Collecting Data	<a href="#">Scientific Apparatus</a>
St 4	Processing and Presenting Data	<a href="#">Graphs and Charts</a>
St 5	Drawing Conclusions	<a href="#">Conclude and Evaluate</a>
St 6	Uncertainties and Evaluations	<a href="#">Conclude and Evaluate</a>
St 7	Modelling	<a href="#">Modelling in Science</a>
St 8	Knowledge of Biology	<a href="#">Digestion</a> , <a href="#">Breathing</a> , <a href="#">Respiration</a> , <a href="#">Photosynthesis</a> , <a href="#">Evolution</a>
St 9	Knowledge of Chemistry	<a href="#">The Periodic Table</a> , <a href="#">Rock Types</a> , <a href="#">The Rock Cycle</a>
St 10	Knowledge of Physics	<a href="#">Heating and Cooling</a> , <a href="#">Light</a> , <a href="#">Sound</a> , <a href="#">Circuits</a> , <a href="#">Magnetism</a>

KS3 BBC Bitesize links have been included to allow you to target revision of these skills. Within each link you will find:

- Videos explaining each skill.
- Written notes and questions to support learning.
- An assessment to monitor progress.

All of these topics will continue to be reviewed regularly in lessons and independent study over the rest of the year, so there are plenty of opportunities to make progress.



**“SOMEWHERE, SOMETHING INCREDIBLE IS WAITING TO BE KNOWN”**