SCIENCE LEARNING PATH STATEMENTS YEAR 9

YEAR 9	SCIENCE LEARNING PATH 1 LP1	SCIENCE LEARNING PATH 2 LP2
St 1	Testing Hypotheses: Create a hypothesis supported by a range of scientific knowledge	Testing Hypotheses: Create a hypothesis supported by a range of 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, create an investigation that can be tested, with an understanding of some variables
St 5	Processing and Presenting Data: Process and accurately present a range of scientific data	Processing and Presenting Data: 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 a correct scientific conclusion
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: Significant awareness of a range of biological terms	Knowledge of Biology: Good awareness of a range of biological terms
St 9	Knowledge of Chemistry: Significant awareness of a range of chemical terms	Knowledge of Chemistry: Good awareness of a range of chemical terms
St 10	Knowledge of Physics: Significant awareness of a range of physics' terms	Knowledge of Physics: Good awareness of a range of physics' terms

SCIENCE LEARNING PATH STATEMENTS YEAR 9

YEAR 9	SCIENCE LEARNING PATH 3 LP3	SCIENCE LEARNING PATH 4 LP4
St 1	Testing Hypotheses: Create a hypothesis that is supported by some scientific knowledge	Testing Hypotheses: Create a hypothesis with some supporting 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, accurately collect a range of data by using appropriate equipment
St 3	Modelling: Evaluate scientific models and show understanding of their limitations	Modelling: Evaluate scientific models and show some understanding of their limitations
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, partially create an investigation that can be tested, with an understanding of some variables
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 range of scientific data
St 6	Drawing Conclusions: Evaluate data and draw partially correct scientific conclusions	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: Awareness of a range of evaluation terms with limited application
St 8	Knowledge of Biology: Fundamental awareness of a range of biological terms	Knowledge of Biology: Some awareness of a range of biological terms
St 9	Knowledge of Chemistry: Fundamental awareness of a range of chemical terms	Knowledge of Chemistry: Some awareness of a range of chemical terms
St 10	Knowledge of Physics: Fundamental awareness of a range of physics' terms	Knowledge of Physics: Some awareness of a range of physics' terms

SCIENCE

KING ALFRED'S OPPORTUNITY FOR ALL

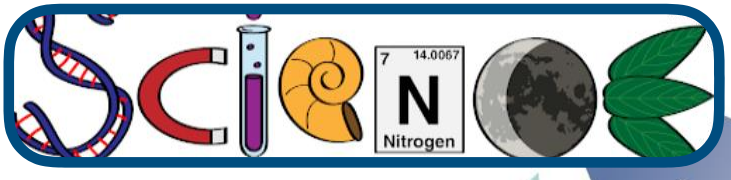
The table below summarises the different skills and knowledge assessed during Year 9. You can use the information to review which topics you have done well in and which might need further work.

Year 9	Science Topic	KS3 BBC Bitesize Link
St 1	Testing Hypotheses	Planning an Experiment
St 2	Designing Investigations	
St 3	Collecting Data	Scientific Equipment
St 4	Processing and Presenting Data	Observing an Experiment Analysing an Experiment
St 5	Drawing Conclusions	Evaluating an Experiment
St 6	Uncertainties and Evaluations	
St 7	Modelling	Modelling in Science
St 8	Knowledge of Biology	Infection and Response Organisation
St 9	Knowledge of Chemistry	Chemistry of the Atmosphere Chemical Changes Energy Changes
St 10	Knowledge of Physics	Electricity, Energy

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"