SCIENCE LEARNING PATH STATEMENTS YEAR 7

YEAR 7	SCIENCE LEARNING PATH 1 LP1	SCIENCE LEARNING PATH 2 LP2
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 LEARNING PATH STATEMENTS YEAR 7

YEAR 7	SCIENCE LEARNING PATH 3 LP3	SCIENCE LEARNING PATH 4 LP4
St 1	Testing Hypotheses: Create a simple hypothesis	Testing Hypotheses: Create a simple hypothesis
St 2	Collecting Data: In investigations, collect some data using relevant equipment	Collecting Data: In investigations, collect some data based on guidance
St 3	Modelling: Identify differences between scientific models and real life	Modelling: Identify a difference between scientific models and real life
St 4	Designing Investigations: Given a hypothesis, create a simple investigation to test the hypothesis	Designing Investigations: Given a hypothesis, describe a simple investigation modelled to test the hypothesis
St 5	Processing and Presenting Data: With guidance - process and present a limited 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 with guidance and draw scientific conclusions	Drawing Conclusions: Evaluate data with guidance and draw a scientific conclusion
St 7	Uncertainties and Evaluations: Limited awareness of a range of evaluation terms	Uncertainties and Evaluations: Limited awareness of a range of evaluation terms
St 8	Knowledge of Biology: Limited awareness of a range of biological terms	Knowledge of Biology: Very limited awareness of a range of biological terms
St 9	Knowledge of Chemistry: Limited awareness of a range of chemical terms	Knowledge of Chemistry: Very limited awareness of a range of chemical terms
St 10	Knowledge of Physics: Limited awareness of a range of physics terms	Knowledge of Physics: Very limited awareness of a range of physics terms

SCIENCE

KING ALFRED'S OPPORTUNITY FOR ALL

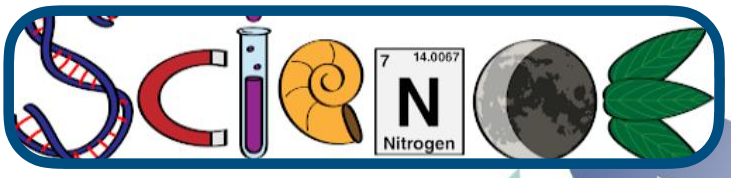
The table below summarises the different skills and knowledge assessed during Year 7. You can use the information to review which topics you have done well in and which might need further work.

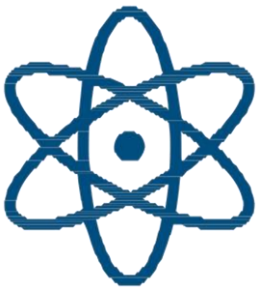
Learning Path Statement Yr7	Science Topic	GCSE Bitesize Link
St 1	Testing Hypotheses	Writing a Hypothesis and Prediction
St 2	Designing Investigations	Planning an Experiment
St 3	Collecting Data	Scientific Apparatus
St 4	Processing and Presenting Data	Graphs and Charts
St 5	Drawing Conclusions	Conclude and Evaluate
St 6	Uncertainties and Evaluations	Conclude and Evaluate
St 7	Modelling	Modelling in Science
St 8	Knowledge of Biology	Cells, Human Reproduction, Flowers & Pollination, Food Chains & Webs
St 9	Knowledge of Chemistry	Acids and Alkalis, The Particle Model of Matter, Pure & Impure Substances
St 10	Knowledge of Physics	Introduction to Forces, Friction, Energy Stores, Space Science

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"