



Year 8 Test and science skills

Throughout the year

Aims: This unit of work is designed to build

Links to KS4 areas of skill for exams and practical:

- Development of scientific thinking
- Experimental skills and strategies
- Analysis and evaluation
- Scientific vocabulary, quantities, units, symbols and nomenclature

Key Skills	Literacy Links:	Numeracy Links:
<ul style="list-style-type: none"> • Apply a knowledge of a range of techniques, instruments, apparatus, and materials to select those appropriate to the experiment. • Presenting observations and other data using appropriate methods. Translating data from one form to another. • Writing out methods and giving the different variables. • Being objective, evaluating data in terms of accuracy, precision, repeatability and reproducibility. • Use scientific vocabulary, terminology and definitions. • Recognise the importance of scientific quantities and understand how they are determined. • Use SI units (eg kg, g, mg; km, m, mm; kJ, J) and IUPAC chemical nomenclature unless inappropriate. • Use prefixes and powers of ten for orders of magnitude (eg tera, giga, mega, kilo, centi, milli, micro and nano). 	<p>Key Words: Be able to read and use these keywords within Scientific situations both verbally and written. Being able to dissect questions to answer successfully</p>	<p>Manipulating formula, finding averages, transferring data into graphs,</p>
<p>Assessment</p> <ul style="list-style-type: none"> • During the academic year students will be assessed on the topics covered. There will also be a skills question in every test that will assess their knowledge of a skill that is needed for science. This skill will be something that they have covered during the topic. 	<p>Cross-Curricular Links</p> <ul style="list-style-type: none"> • Exam skills • Math skills • Language skills <p>SMSC opportunities and British values</p> <p>Comparison and debate skills,</p>	

Opportunities for further learning

Homework for KS3 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit.

Option 1: Listen to the variables song - https://www.youtube.com/watch?v=hwU3YL_SD70

Option 2: Practice exam questions from the revision guide.

Option 3: Using BBC bitesize to revise content being covered - <https://www.bbc.co.uk/bitesize/subjects/zng4d2p>

Option 4: Past exam questions - <http://www.satspapers.org/KS3%20sats%20Y9%20science.htm>

Option 5: Explore the incredible world of science with Crash Course Kids - <https://www.youtube.com/channel/UCONtPx56PSebXJOxbFv-2jQ>

Option 6: Key word mats available from the science area online.

Option 7: Science practical questions - https://www.ibstockcollege.co.uk/user_uploads/files/SCI%20-%20Y9%20revision%20booklet%202018.pdf

Option 8: Science Fair Research project – Moon landing. See science area online.