

Welcome to Science @ SHS



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Topics in Year 7

Being a scientist

You and your body

Particles in action

Feel the force

Plants

Elements and compounds

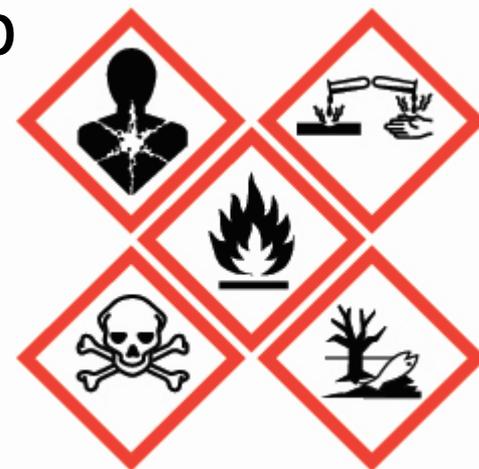
Electrifying

What makes you 'you'?

Chemical reactions

Working safely in the lab

- We want our students to enjoy taking part in practical investigations
- All of our practical investigations are risk assessed
- In the first few lessons, students focus on using equipment and lab safety



Assessments

Students will be assessed in two ways;

- Summative end of unit tests to allow students to demonstrate their understanding of the whole topic. Marks in the test will then provide students with an overall grade for that topic
- Formative assessment tasks. These tasks usually focus on one aspect within the topic. Students are provided with a level ladder to help students to produce a piece of work that is at their target grade.
- Additional "bonus" assessments are available on FROG for those students wishing to enhance their understanding further.

How can you help?

All students will be informed of their target grade for science.

When students bring assessed tasks home to complete they will find it really useful if you can just go through the success criteria for their target grade and help them to check off what they have completed and what they may still need to add.

To achieve grade	You might
1	<p>State what you are trying to find out.</p> <p>Suggest some equipment that you could use.</p> <p>Suggest one way to control your experiment and keep it a fair test.</p> <p>State what you will change in your experiment.</p> <p>Design a table that you could record your results in.</p>
2	<p>Decide on a suitable question to investigate (what are you trying to find out?)</p> <p>Select suitable equipment for the investigation and describe how you will use it.</p> <p>Identify the independent variable (what you will change)</p> <p>Identify the dependent variable (what you will measure)</p> <p>Identify which variables you will control.</p> <p>Design a suitable results table to record a range of results.</p> <p>Make a simple prediction.</p>
3	<p>Decide on a suitable scientific question to investigate.</p> <p>Select suitable equipment stating reasons for choice.</p> <p>Describe how you will investigate your chosen question.</p> <p>Identify and explain the dependent and independent variable and those variables that will be kept the same.</p> <p>State the range of measurements that you will take and design</p>

How do we assess your child's progress?

Science teachers constantly assess the knowledge and understanding of students through questioning and marking.

We also mark for spelling and grammar.

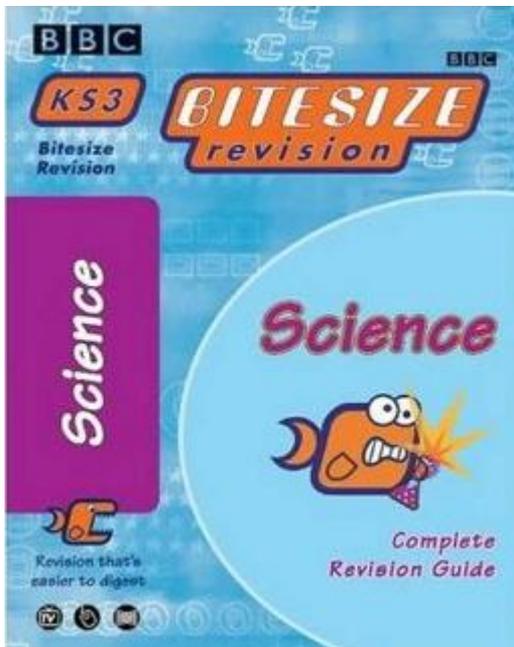


Formative comments are given and pupils have the opportunity to reflect and respond to targets by improving work or making corrections during **DIT (green pen)**.

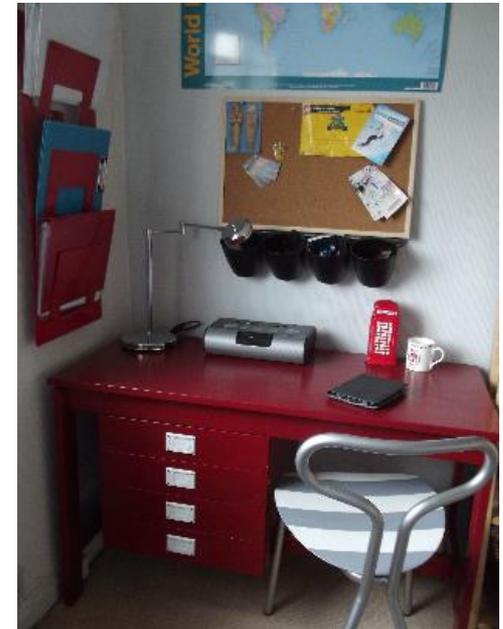
How can you help your child?

www.samlearning.com

www.bbc.co.uk/bitesize/ks3



FRIDAY	SATURDAY	SUNDAY
Breakfast	Breakfast	Breakfast
to School		Choir
ing		
	Lunch	Lunch
	Home	Home
Game	Video Game	Video Game
homework	Do Homework	Do Homework



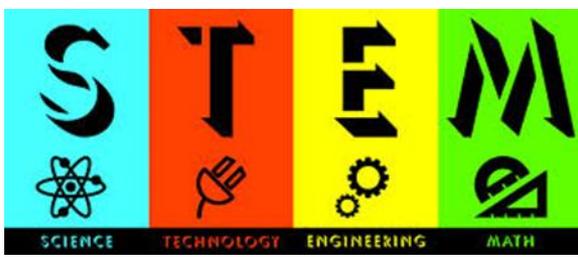
New GCSE (9-1) grades

We are no longer using National Curriculum levels at KS3

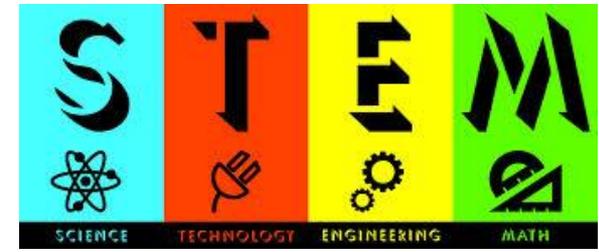
We are mapping the skills and objectives in our schemes and comparing them to the new GCSE 9-1 grades

When we report progress, we will assess the current GCSE grade equivalent and predict the final GCSE grade based on current rate of progress (these predictions are more reliable as students move up through the school)

Remember that the new Science KS4 programme of study has moved back towards a more 'content heavy' qualification and students will not be taught some of the content for their final exams until Y11



STEM@SHS



Science Technology Engineering and Maths

People with **STEM** qualifications are in demand: you put yourself in a stronger position in today's competitive job market.

Studying **STEM** subjects leads directly to a huge variety of exciting and rewarding career opportunities.

With **STEM** skills, you can make a big contribution to many of the big challenges facing society today.

2016-2017

- STEM club
- Increased awareness of STEM through form time activities
- Jeans 4 genes day
- STEM leaders conference
- Science Fair
- British Science and engineering week - demo day
- Big Bang STEM careers fair
- Year 9 STEM day



SHS STEM @SeafordSTEM · Jun 29

@Seaford_Head Lots of ideas about #STEM careers @BigBangFair today! @stemsussex



STEM@SHS

- Stem Club: Every Tuesday 3.30-4.30 starting 26th September with Miss Barnes and Mr Clements
- Science and engineering week: Science fair
- STEM day

Any

Questions?