

## Year 8 Science SKI Week Preparation

All students will sit a **75 mark test** that will test their knowledge of the topics covered this year. These topics have been chosen as they underpin all future Science learning. We would really appreciate any support and encouragement you can offer at home to help your young person consolidate their learning from this year and set the foundation for their future success in Science.

### Biology topics

Cells – tissue- organ (stomach as an example) - system, Recall cell structure and specialised cells (microvilli)	<a href="#">What are plant and animal cells? - BBC Bitesize</a>
Roles of system (revision Y7 systems) – digestion system and Diffusion	<a href="#">The structure of the digestive system - Nutrition, digestion and excretion - KS3 Biology - BBC Bitesize</a>
What enzymes do	<a href="#">What enzymes break down starch? - BBC Bitesize</a>
Food groups and balanced diet	<a href="#">Healthy diet - Nutrition, digestion and excretion - KS3 Biology - BBC Bitesize</a>

### Chemistry topics

Structure of atom – sub atomic particles linked to mass and atomic number	<a href="#">Structure of the atom - Atoms - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a>
Symbols – identify as elements/compounds	<a href="#">What is a chemical reaction? - BBC Bitesize</a>
Writing word equations – metals with and water & oxygen & acid	<a href="#">Writing word equations - BBC Bitesize</a>
Combustion and fire triangle	<a href="#">Combustion: what is it? - BBC Bitesize</a>

## Physics topics

Waves including sound and light	<a href="#">Features of waves links to energy transfer guide for KS3 physics students - BBC Bitesize</a>  <a href="#">Introduction to sound waves guide for KS3 physics students - BBC Bitesize</a>  <a href="#">Reflection guide for KS3 physics students - BBC Bitesize</a>
Types of energy	
Energy transfer	<a href="#">Energy stores - Energy - KS3 Physics - BBC Bitesize</a>
Use efficiency equation and using a Sankey diagram	
Types of forces	
Resultant forces	<a href="#">Force diagrams and resultant forces - Forces and movement - KS3 Physics - BBC Bitesize</a>
Speed, Distance time graphs	
Hooke's Law	<a href="#">Hooke's law - Forces and movement - KS3 Physics - BBC Bitesize</a>

## Science skills

Identifying variables	<a href="#">Variables - Working scientifically - KS3 Science - BBC Bitesize</a>
Equipment	<a href="#">KS3 Science - Working Scientifically - Drawing scientific apparatus - BBC Bitesize</a>
Calculating a mean	<a href="#">Observation and measurement skills - Working scientifically - KS3 Science - BBC Bitesize</a>

Writing a conclusion	<a href="#">Conclude and evaluate - Working scientifically</a> <a href="#">- KS3 Science - BBC Bitesize</a>
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## How to revise?

Students should look back at the end of topic tests that they have completed and select specific topics that they found difficult, to do some independent revision on.

The questions in the end of year test will be similar to the questions used in the end of topic tests which should be stuck into their Science book.

All of the BBC Bitesize links shared have excellent videos and mini quizzes to help students to revise. Students might also find it helpful to summarise the main points whilst they are reading/watching the videos.