

# Big picture - What will you cover in KS3?

Year 7		Year 8	
Chemistry	<b>Reactions</b> What are reactions? What are common acids and alkalis? Why are chemical hazard symbols used?	Chemistry	<b>Matter and Reactions</b> How can reactive sodium end up on my chips? Can water pipes be made up of lithium?
Biology	<b>Organisms</b> How can my body move? How does a microscope work? What are found in different cells? What are we made up of?	Biology	<b>Body systems &amp; respiration</b> What is respiration and why is it so important? What do our major body systems do? Can you survive without glucose?
Biology	<b>Genes</b> How do babies develop? What makes us all different? How can living things survive in hot or cold habitats?	Biology	<b>Photosynthesis</b> How do plants make their own food? Why are leaves green?
Chemistry	<b>Particles &amp; Separation techniques</b> Is toothpaste a solid or a liquid? Can you walk on custard? How can you produce drinking water from salty water?	Physics	<b>Energy</b> Why does my metal spoon get hot in a cup of tea? How can a hot air balloon fly? What colour t-shirt should I wear in the summer?
Biology	<b>Ecosystems</b> Why are bees so important? What would happen if the all the trees and plants died?	Biology	<b>Genes</b> Why do we sometimes look like our parents? Why are dodos not around anymore? Who is Charles Darwin? Where did the dinosaurs go?
		Physics	<b>Speed, distance and time</b> What makes some things faster than others? How can you design something to go faster? What is terminal velocity?

Our intent in KS3 is to promote awe and wonder. We want you to be curious about the world around you and be confident to ask questions and investigate a range of possibilities.

*"Question everything. Learn something."*

Euripides

## Awe and Wonder!

Year 7	Year 8
<b>Pressure</b> Why can divers not dive to the very bottom depths of the ocean?	<b>Light</b> How is your eye like a camera?
<b>Electricity</b> What is lightening?	<b>Sound</b> How can sound help animals navigate?
<b>Forces - springs</b> Is there a weight limit for a bungee jump?	<b>Magnets</b> How does the Earth's core act like a magnet?