



# Curriculum Overview for students

## What are we learning in Science in Year 7?



| WHEN  | MAIN TOPICS   | Skills  | RESOURCES TO HELP ME/ASSESSMENT DETAILS   |
|---|---|---|---|
| <b>HALF TERM 1</b><br><i>Cells and Reproduction</i> | Students will learn about plant and animal cells and how these form part of an organism. This will include movement in and out of cells. We will also understand reproduction in plants and animals.  | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i>                       | Kerboodle Book 1<br>Chapter 8 and 10<br><br><b><u>Long answer question on cells</u></b><br><b><u>End of topic test</u></b>  |
| <b>HALF TERM 2</b><br><i>Ecology</i>                | Students will learn the interdependence of organisms in an ecosystem, including food webs and human impact on the environment.  | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i><br><i>Application</i> | Kerboodle Book 1<br>Chapter 9<br><br><b><u>End of topic test</u></b>  |
| <b>HALF TERM 3</b><br><i>Energy and Sound</i>       | Students will learn about the types of energy and how they are transferred. Students will be introduced to waves in the concept of light and sound waves. They will look at the behavior of waves and how they travel.                            | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i><br><i>Application</i> | Kerboodle Book 1<br>Chapter 3 and 4<br><br><b><u>Long answer question on energy</u></b><br><b><u>End of topic test</u></b>  |
| <b>HALF TERM 4</b><br><i>Forces and Electricity</i> | Students will build on the 'push', 'pull' and 'twist' forces they learnt at primary school and learn how to draw and measure forces. We will develop our understanding of electricity and how it is formed.                                       | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i>                       | Kerboodle Book 1<br>Chapter 1 and 2<br><br><b><u>End of topic test</u></b>  |
| <b>HALF TERM 5</b><br><i>Particles and Mixtures</i> | Students will develop their understanding on solids, liquids and gases particles make up everything around us and how they form part of mixtures. Students will also learn about simple chemical reactions and their role in the world around us. | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i><br><i>Application</i> | Kerboodle Book 1<br>Chapter 5 and 6<br><br><b><u>End of topic test</u></b>  |
| <b>HALF TERM 6</b><br><i>Earth and Space</i>        | Students will understand the structure of the Earth and how we can use it for resources. We will also develop our understanding of safe.  | <i>Scientific vocabulary</i><br><i>Investigation</i><br><i>Gathering data</i><br><i>Analysis</i><br><i>Evaluation</i><br><i>Application</i> | Kerboodle Book 1<br>Chapter 3 and 4<br><br><b><u>Long answer question on planets</u></b><br><b><u>End of topic test</u></b> |