



# Long Term Plan (Appendix 3 Booster LTP)

Subject	Science	Academic year	2016 - 2017	Class	Mrs Robinson
Autumn: Term 1			Autumn: Term 2		
<ul style="list-style-type: none"> <li>Life Processes and Living Things</li> <li>Students learn about the right type and amount of nutrition as well as the functions of skeletons and muscles. They will research the parts and functions of the circulatory system. They will focus on how nutrients are transported around the human body. Children will explore how a healthy lifestyle supports the body to function and how different types of drugs affect the body</li> </ul>			<ul style="list-style-type: none"> <li>Weather and seasonal changes</li> <li>This 'Seasonal Changes (Autumn and Winter)' unit will teach your class about the four seasons, with a particular focus on autumn and winter. Children will learn what the word weather means and find out how different types of weather can be measured. Children will use a class weather station to observe, measure and record the weather across the seasons. They will also observe changes across the seasons by exploring the signs of autumn and winter through nature and wildlife.</li> </ul>		
Spring: Term 1			Spring: Term 2		
<ul style="list-style-type: none"> <li>States of matter - properties and change</li> <li>This 'States of Matter' unit will teach about the differences between solids, liquids and gases, classifying objects and identifying their properties. The students will work scientifically and collaboratively to investigate the weight of a gas. Furthermore, they will have chance to find the ideal temperature to melt chocolate. They will explore in-depth how water changes state, exploring melting, freezing, condensing as well as a particular focus on evaporation..</li> <li></li> </ul>			<ul style="list-style-type: none"> <li><b>Living Things and their habitats</b></li> <li>In this unit children explore a variety of ways to identify, sort, group and classify living things. They learn how animals are split into 'vertebrates' and 'invertebrates' and begin to consider the differences between living things within these classifications. This unit also introduces children to the idea that environments are subject to man-made and natural changes, and that these changes can have a significant impact on living things.</li> </ul>		



Summer: Term 1	Summer: Term 2
<ul style="list-style-type: none"><li>• Forces &amp; Magnets</li><li>• Students will learn about forces, friction and magnetic attraction. They will learn about forces in the context of pushing and pulling, and will identify different actions as pushes or pulls. They will work in a hands on way to identify magnetic materials. Furthermore, they will conduct an investigation into the strength of different types of magnet. The students will have chance to explore the way magnetic poles can attract and repel in an exciting activity, making their own compass and using it to find hidden items.</li></ul>	<ul style="list-style-type: none"><li>• Extreme Earth - Earthquakes and Volcanoes</li><li>• This Extreme Earth unit will teach about the destructive powers of nature, from volcanoes and earthquakes to tsunamis and tornadoes. Through discussion and practical tasks, children will learn about how and why these natural phenomena occur, and the ways in which they affect people and the environment.</li></ul>

**NB:** Overlearning will be required throughout the year. Topics maybe revisited and/or moved around as necessary.