



**Content included in
our curriculum in
addition to the
National Curriculum
content**



Additional National Curriculum Content	Rationale for inclusion
Taking Care of the Earth (Biology/Chemistry) Year 1	<p>Links to Catholic Social Teaching</p> <p>This unit has been included in our curriculum in addition to the national curriculum content. Within this unit we included knowledge that, over time, builds understanding of concepts such as recycling and sustainability. We feel that our KS1 pupils should be introduced to this knowledge, in addition to the rest of their science curriculum, in order to build awareness of local and global issues relating to human interaction with the environment.</p>
Astronomy - Physics Year 2	<p>This unit has been included in our curriculum in addition to the National Curriculum content. It gives pupils an introduction to this fascinating branch of science, before they are required to do so by the National Curriculum in Year Five. This unit builds important understanding that scientists learn from each other to make new discoveries. This avoids pupils building a misconception that scientists discover things in a vacuum, just one day stumbling upon new knowledge, and reinforces the idea that scientists are experts who have studied the work of people who came before them.</p>
Electricity Year 2	<p>This unit is a non-statutory unit that we have included in our curriculum in order to teach knowledge that pupils will build upon when they study electricity in Year 4. We felt that following the National Curriculum and not teaching electricity until Year 4 would miss an opportunity to build some understanding in Key Stage One. We also feel that doing this will avoid cognitive overload when pupils come to study this area of science in Year 4. This unit introduces electricity, what we use it for, how it behaves and how we must use it safely.</p>

Additional National Curriculum Content

Rationale for inclusion

Cycles in Nature (Biology) Year 3

Links to Catholic Social Teaching
Building on their understanding of the environment, plants and animals from previous units, children will learn about cycles in nature. They will study patterns, trends and cycles that occur throughout the seasons, in the life of plants and in the life of animals. Children will understand that the tilt of the earth creates our seasons. This knowledge will be built upon in the Year 5 unit on Astronomy.

Ecology (Biology) Year 4

Links to Catholic Social Teaching
Building on their understanding of the environment, plants and animals from previous units, children will learn about cycles in nature. They will study patterns, trends and cycles that occur throughout the seasons, in the life of plants and in the life of animals. Children will understand that the tilt of the earth creates our seasons. This knowledge will be built upon in the Year 5 unit on Astronomy.

Meteorology (Chemistry and Physics) Year 5

In this unit, children will deepen their understanding of meteorology: the study of the weather. Building on the children's existing schemas, the substantive concepts of this unit will focus on weather, climate, atmosphere and forecast. The disciplinary knowledge gained in this unit allows the children to think more like meteorologists, using data and diagrams to deduce and draw logical conclusions.

Reproduction (Biology) Year 6

Link to Life to the Full unit. This unit covers content which is additional to the National Curriculum. It builds on understanding of how plants and animals reproduce from previous years, particularly from Year 5 Human Body and also Year 5 Living Thing. This unit has been included to deepen understanding of reproduction in plants and animals and to give pupils a clearer picture of some of the similarities and differences in the world of living things. We strongly suggest that Year 5 Human Body and Year 5 Living Things are taught before this unit in Year 6.