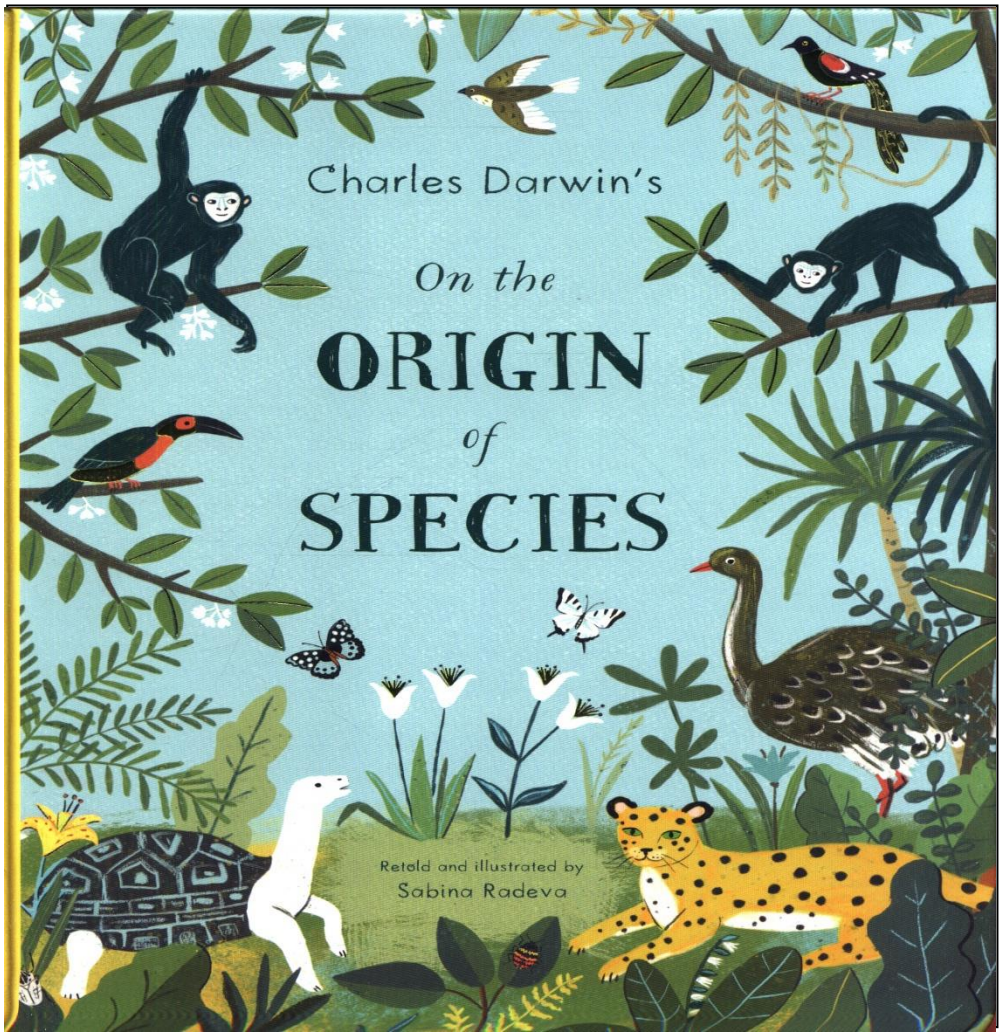
We learn and grow with Jesus to love, inspire and serve others.

We are Scientists:

Developing Open and Curious Minds

Theme Overview

Year 6: Darwin



We are Scientists: Developing Open and Curious Minds

Year 6: Darwin

This theme is centred around the ever changing and developing world of science. Throughout this theme, we intend to share the importance of science with our children and ask them to consider the impact that science has had on their world and to think about the impact that science will have in the future. As scientists, children will be given the opportunity to ask questions, investigate and record outcomes and then draw conclusions from their findings. We will encourage children to look at the world through the eye of a scientists and remind them that in the world of science, many things are possible.

Theme Impact

Building on what they learned about fossils in the topic on rocks in year 3, pupils should find out more about how living things on earth have changed over time. They should be introduced to the idea that characteristics are passed from parents to their offspring. They should also appreciate that variation in offspring over time can make animals more or less able to survive in particular environments. Pupils might find out about the work of palaeontologists such as Charles Darwin and how he developed his ideas on evolution.

Catholic Social Teaching

Dignity of Work : Children will deepen their understanding that work is an intrinsic good, and workers must always be respected and valued. They will explore the dignity in work in different sectors and develop their understanding that we are co-creators of Gods world and work is part of our contribution. They will explore the God given gifts and talents shared with workers within different sectors and link this to the vocation of others. Option for the Poor and Vulnerable: This encourages us to imitate Christ's love for the poor by working to create a society where the needs of the poor are always considered first .

Virtues and Values

Our virtue and values focus this term is*: Learned and Wise.*

At St Wulstan's we are growing to be **learned**, finding God in all things; and **wise** in the ways we use our learning for the common good.

British Values

Mutual Respect: Children will learn to value others highly for what they say or do or to treat people politely and thoughtfully, to show that we value them.

Curriculum Drivers

Science

National Curriculum Objectives	Knowledge and Skills Progression
St. Wulstan's pupils will be taught: • recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago • recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents • identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution St Wulstan's pupils will be taught: • to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	St. Wulstan's pupils will be taught: • Identify inherited traits and adaptive traits. • Understand that adaptations are random mutations. • Examine fossil evidence supporting the idea of evolution. • Identify the difference between selective and cross-breeding. • Develop an understanding of the development of evolutionary ideas and theories over time. • Explain how human evolution has occurred and compare modern humans with those of the same genus and family. • Understand that adaptation and evolution is not a uniform process for all living things. • Give examples of selective and crossbreeding • Explain the terms adaptation, evolution and natural selection and use these in context. • Describe how living things evolve via the process of natural selection.

• to record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • to use test results to make predictions to set up further comparative and fair tests • to report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations • to identify scientific evidence that has been used to support or refute ideas or arguments.	• Explain in simple terms what genes and DNA are. • Investigate the ethical issues of human intervention in the process of evolution by natural selection
Wider Curriculum Opportunities	
Writing	**Reading**
Biography: •The life of Charles Darwin Narrative retelling: •Diary entries •Character/ setting description Report •Birds of prey report	Sky Hawk by Gill Lewis is an exciting and moving adventure story in which children who are passionate about the natural world use their friendships both at home and across the world to safeguard a very special bird: Iris the osprey. It encourages children to think about issues such as humans' relationship with rare wild birds and our responsibility to care for them and how communities can make links and help each other
Enrichment	**Home Learning**
Science Week 10 – 19 March 2023 World Book Day 2 March 2023	Pupils will create a 'Evolution and Inheritance' project of their choice.
Discrete Objectives	
RE	**PE**
Unit F: Lent Unit G: Holy Week	Hockey Yoga
Music	**Modern Foreign Languages**
	French - Weather
Computing	**PSHE/RSE**
	PSHE -Jigsaw Unit 3 **<u>Dreams and Goals</u>** • Personal Learning Goals • Steps to Success • My Dream for the World • Helping to Make a difference • Recognising our Achievements