Learning Pathways in Science

At Tollgate, we teach the National Curriculum, in full, using the Kent Science Scheme to support our teaching and learning. 'Working Scientifically' is at the heart of each topic, which incorporate practical investigation to inspire, support and develop learning. Key skills and knowledge are taught throughout each topic in order for the children to answer the 'Key Inquiry' questions outlined below.

Year 7

TAKE IT FURTHER

OWN YOUR FUTURE

Year 6

- **Evolution**
  - Genetic modification: Should humans intervene in this way?
  - How did Darwin's scientific findings influence people's views about evolution?
- **Animals including humans**
  - Does changing the type of exercise you do, have an impact on your pulse rate?
- **Living things and their habitats**
  - What characteristics need to be considered when classifying leaves?
  - What environmental conditions support the growth of fungi?

Year 5

- **Living things and their habitats**
  - How do the life cycles of living creatures differ?
  - How do plants ensure their own survival?
- **Animals including humans**
  - Is there a relationship between the mass of an adult animal and the length of the gestation period?
  - What happens to humans as they become older?

Year 4

- **Living things and their habitats**
  - How can we classify different animals?
  - How are animals suited to where they live?
- **Animals including humans**
  - What are the functions of different types of teeth?
  - What happens when we chew and digest food?
  - What is a food chain?

Year 3

- **Animals including humans**
  - Why do animals need to eat a range of foods to be healthy?
  - Which is most important: skeleton or muscle?
- **Plants**
  - What is the most important part of a plant? Why?
  - Which conditions grow the healthiest plants?

KS1 Y2 St Andrews

- **Animals including humans**
  - Topic: 'Roald Dahl'
  - Offspring & needs of animals and humans
- **Plants**
  - Topic: 'The Enchanted Wood'
  - How plants grow & their needs to stay healthy
- **Living things and their habitats**
  - Topic: 'Around the World'
  - How living things are suited to different habitats that meet their needs & how they obtain their food

KS1 Y1 St Andrews

- **Animals including humans**
  - Topic: 'Mr Men and Little Miss'
  - Parts of the human body
- **Animals including humans**
  - Topic: 'Paws'n'claws'
  - Identifying and naming common animals and comparing their structures
- **Plants**
  - Topic: 'Around the World in 80 days'
  - Identify and name a variety of plants and their structures
- **Animals including humans**
  - Topic: 'All About Me'
  - Parts of the human body and human senses

EYFS

St Andrews
<u>Understanding the World</u>
Nature walks
Farm animals
Growing plants
Mini-beasts
Bug hunting