Year 4

Statutory Requirements:

- Describe the simple functions of the basic parts of the digestive system in humans
- Identify the different types of teeth in humans and their simple functions
- Construct and interpret a variety of food chains, identifying producers, predators and prey

Working Scientifically:

- Asking relevant questions and using different types of scientific enquiries to answer them
- Setting up simple practical enquiries, comparative and fair tests
- Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables

Key Knowledge:

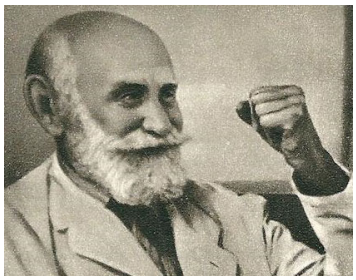
- The digestive system is responsible for the breakdown of food and absorption of nutrients into our body.
- The main parts of the digestive system are the mouth, oesophagus, stomach, small intestine and large intestine.
- Humans have four types of teeth: Incisors (for cutting), Canines (for piercing), Pre-Molars and Molars (for crushing chewing).
- Food-chains show producers (plants eaten by animals), prey (animals which are eaten by other animals) and predators (animals which eat other animals).

Key Vocabulary:

- Digestive System
- Mouth
- Tongue
- Saliva
- Oesophagus
- Stomach
- Small Intestine
- Large Intestine
- Nutrients
- Teeth
- Canine
- Incisor
- Pre-Molar
- Molar
- Food Chain
- Producer
- Predator
- Prey

Key Scientists:

Classic
Al Jahiz (9th Century)
Created one of the earliest food webs.



Classic
Ivan Pavlov (1849 – 1936)
Russian scientist who studied mammal digestive systems.

Contemporary
Emma Allen-Vercoe (???? –)
Developed 'Robogut', a bioreactor that helps to study the Colon (large intestine).