

# Year 4 Knowledge Organisers

Spring 2024



# Science



## Lesson Sequence



1. Learn about the digestive system



2. Explore the human digestive system



3. Know about your teeth



4. Understand how to care for your teeth



5. Investigate food chains



6. Explore food webs

## The Digestive System

Step 1: The mouth and teeth chew and ingest food.

Step 2: Saliva breaks up the food.

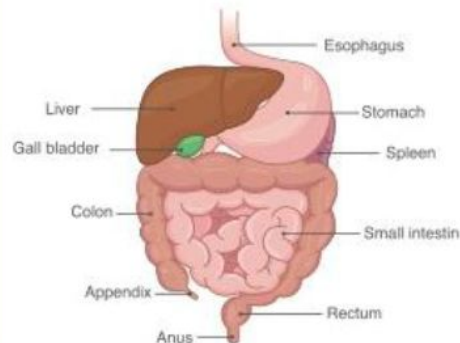
Step 3: When you swallow, food is pushed through **oesophagus** to the stomach.

Step 4: Food is mixed in the stomach.

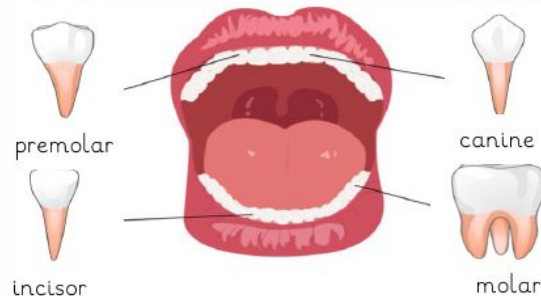
Step 5: The **small intestine** absorbs nutrients from the food.

Step 5: Any leftover broken down food then moves on to the **large intestine**.

Step 6: The food arrives in the **rectum** where muscles turn it into faeces (poo). It is pushed out by the **anus**. This is called excretion.



## Types of Teeth and their function



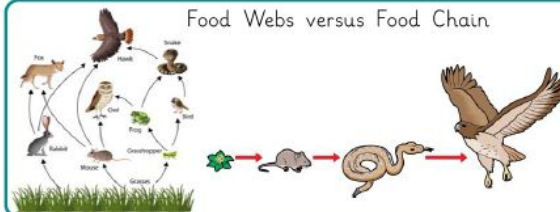
Different teeth have different functions

Teeth of animals are designed for the foods they eat

- **Herbivores** (e.g. horses) mainly use incisors and molars
- **Carnivores** (e.g. Lion) mainly use canines and incisors, they don't have molars
- **Omnivores** (e.g. humans) use all three types of teeth

Tooth enamel is the hardest substance in the human body  
Humans have two sets of teeth: milk teeth and adult teeth

## Food Webs versus Food Chain



# Geography

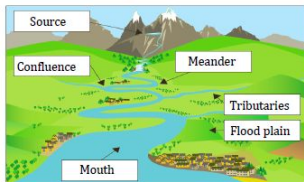
## Knowledge organiser - Rivers

### Progression of knowledge





1. What is the water cycle?
2. What is a river?
3. How are rivers used?
4. What are the features of a river?
5. How do humans affect rivers?
6. What is the impact of flooding?
7. What is interesting about certain rivers?

### Substantive knowledge

- I know that the water cycle moves water around the Earth and has four main stages.
- I know the names of some of the world's longest rivers e.g. the River Nile
- I know that rivers are used for different things e.g. growing crops and transport
- I know that a river has three main stages: upper course, middle course and lower course.
- I know that humans can have a negative impact on rivers.
- I know that flooding is caused by poor drainage around or close to a river.
- I know some ways to protect local rivers.



### Core vocabulary

	drainage	how water flows away from an area through rivers and streams.
	erosion	how wind, water and waves break down and remove rock and soil
	flood management	Stopping or controlling floods
	irrigation	the supply of water, especially for growing crops