



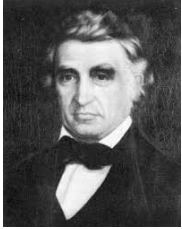
Topic: *Where does all that food go?*

Year: 4

Strand: Animals, including humans—Biology

**Significant Scientist**

**William Beaumont**  
(1785-1853)



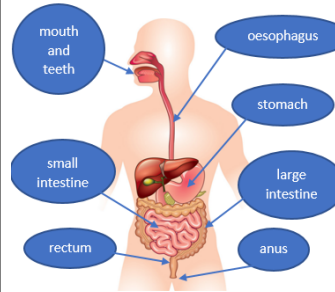
William Beaumont was a surgeon in the U.S. Army. He carried out lots of experiments and research on human digestion. As a result, he provided the world with new information about the digestive process in living human beings.

**Enquiry questions**

- What do we know about food?
- Where does food go inside our body?
- How is food broken down?
- What sort of different teeth do we have, and why?
- What do animals eat, and what do their teeth tell us?

	Key Vocabulary
<b>digestive system</b>	The organs in your body involved in the digestion of food.
<b>digestion</b>	This is the way the body breaks down food so the body can absorb it.
<b>herbivore</b>	Animals that only eat plants.
<b>carnivore</b>	Animals that eat other animals.
<b>omnivore</b>	Animals that eat both plants and animals.
<b>producer</b>	All green plants can make food in their leaves. They are the only producers of food.
<b>consumer</b>	Animals that eat plants in a food chain.
<b>predator</b>	Animals that catch and eat other animals.
<b>prey</b>	Animals that are hunted and eaten by predators.
<b>food chain</b>	Animals eat plants or other animals. The way this happens is shown in a food chain.

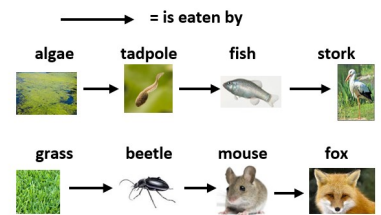
**Animals, including humans- key information**



**The main parts of the digestive system:**

- Food enters the body through the **mouth** and the **teeth** start to break the food down. **Saliva** is added and the tongue rolls the food into a ball.
- After swallowing, the food passes down the **oesophagus** to the **stomach**.
- In the **stomach** the food is broken down further by being churned around and some chemicals are added.
- Food passes into the **small intestine**. Here **nutrients** are removed from the food to be used elsewhere in the body.
- The rest passes into the **large intestine** where **water** is removed to be used elsewhere in the body.
- What is left is then stored in the **rectum** until it leaves the body through the **anus** when you go to the toilet.

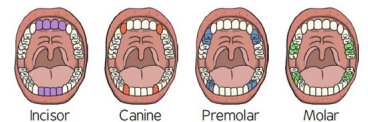
**Food chains**



**Teeth**

Humans have 4 types of teeth:

- **incisors** – used for cutting
- **canines** – rip and tear food
- **molars and premolars** – for grinding and chewing food



**Retrieval Quiz**

1. What is the name of the tube which food passes through to get to the stomach?
2. Which organ in the digestive system absorbs water from waste food?
3. What liquid is added to food in the mouth to help break it down?
4. Where does food pass through at the very end of the digestive system?
5. What two things are added to food in the stomach to help break it down even further?
6. Which teeth allow us: a) tear food b) grind food c) cut food
7. What do you call a living thing found at the **beginning** of a food chain?
8. What is an animal which catches and eats other animals known as?
9. What is a producer able to do that a consumer can't?
10. What do you call a living animal found at the end of a food chain?

**Useful Websites**

<https://www.bbc.co.uk/bitesize/topics/zf339j6/articles/zv8m7yc>