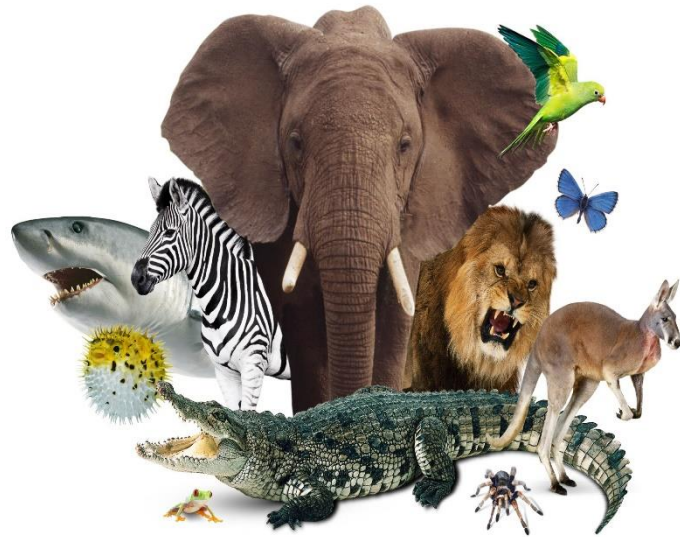


# Y4 ANIMALS including Humans

ASSESSMENT QUESTION: How does the human digestive system work?

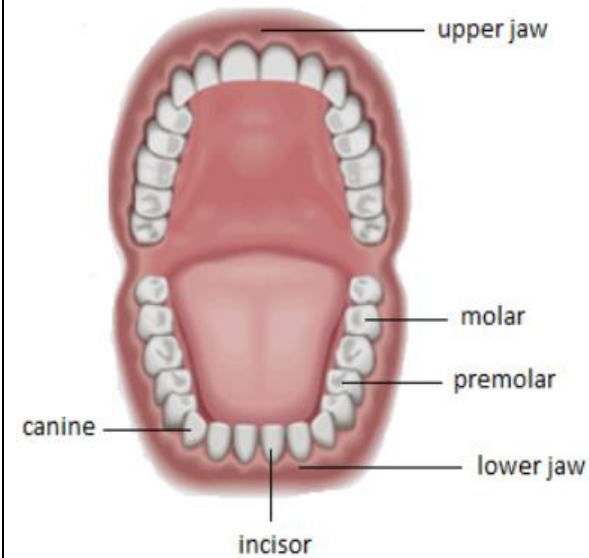
## KNOWLEDGE ORGANISER

### What you should already know...



- Animals cannot create their own food, they must eat in order to get nutrition.
- Animals and humans need the right types and amounts of nutrition.
- Nutrition groups include carbohydrates, fats, proteins, fibre, vitamins and minerals.
- Skeletons are important for support, movement and protection. Muscles help us to move and keep our posture.

### Teeth

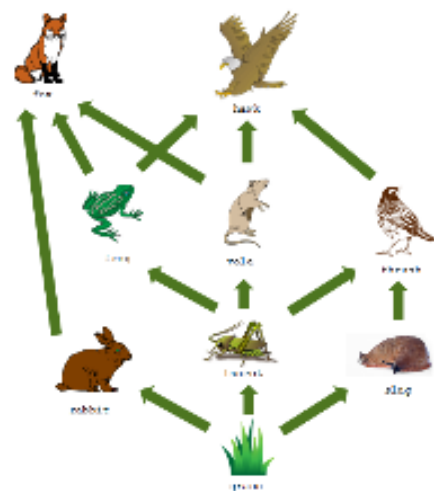


- Humans have up to 32 adult teeth, made up of 4 different types. Each of these types have an important job:
  - Incisors (at the front) are used to cut food.
  - Canines are used to tear food.
  - Pre-molars are used to crush food.
  - Molars (at the back) are used to grind food.
- Our teeth are like this because we are omnivores. Different animals have different teeth layouts depending on their food.

### Food Chains

#### What are Food Chains?

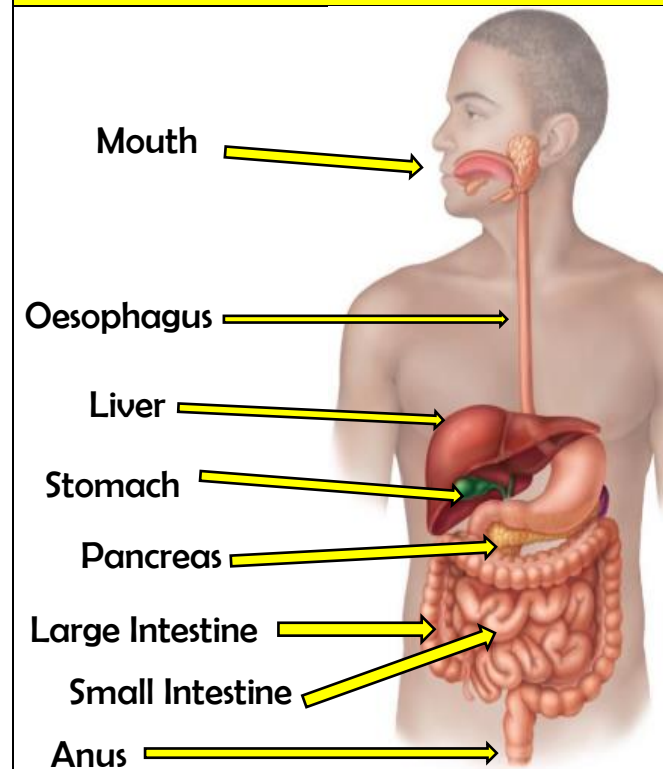
- Food chains show how each living thing gets food, and how nutrients are passed from producers through different consumers.
- Food chains begin with plant life, and end with animal life. At the top of the food chain are apex predators – animals which have no natural predators that eat them.



#### Explanation

- Producers are able to make their own food (for example plants, through photosynthesis).
- Predators are animals that hunt a prey.
- Prey are animals that are hunted or killed by another animal for food.
- Consumers eat food.
- Each plant and animal in the food chain is affected by the others. For example, if there were fewer mice in the habitat, there may be more plants (because the mice aren't eating them) but less snakes (fewer mice to eat).

### The Digestive System



- There are three main stages of the digestive system:
- Ingestion** – Food is taken in by the mouth, and broken down by teeth and saliva.
  - Absorption** – Food is further broken down in the stomach & intestines. Nutrients are absorbed into our bodies through our blood. The liver and pancreas produce the bile and enzymes to help the digestion along.
  - Excretion** – Waste food that the body doesn't need is sent to the anus for excretion. Digesting food takes many hours.
- Oesophagus – the tube leading from the throat to the stomach.*  
*Saliva – the natural liquid in a person's mouth.*  
*Acids – chemical substances.*  
*Enzymes – a substance that assists chemical processes such as digestion.*  
*Intestine – a long tube along which food passes while being absorbed by the body.*

### Example Food Chain

Producer  
Plants



Consumer, prey  
Slug



Consumer, predator,  
prey  
Frog



Consumer, predator  
Owl

