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| **Parklands Primary School – Science** |
| **Topic: Animals including humans** | **Year 4** |
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| **What do we already know?** |  | **Investigate*** Investigate the amount of sugar in drinks and learn how sugar leads to an increase in **plaque** and how this destroys tooth **enamel**.
* Compare the teeth of **carnivores, omnivores** and **herbivores.** What do you notice?
* Match animals to their teeth and explain your reasons for this.
* Identify the parts of the **digestive** system and explain their functions
* Make a model of the digestive system to show how each stage works.
 |  | **Vocabulary**

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| absorb | soak up or take in |
| canine | pointed teeth near the front of the mouth of humans and of some animals |
| carnivore | an animal that eats meat |
| decay | gradually destroyed by a natural **process** |
| digestion | breaking down **ingested** food material |
| enamel | the hard white substance that forms the outer part of a tooth |
| excretion | the process of eliminating **faeces**, urine, or sweat from the body |
| faeces | the solid waste substance that people and animals get rid of from their bodyby passing it through the anus |
| herbivore | an animal that only [eats](https://www.collinsdictionary.com/dictionary/english/eat) plants |
| incisor | the teeth at the front of your mouth which you use for biting into food |
| ingested | When animals or plants **ingest** a substance, they take it into themselves, forexample by eating or **absorbing** it |
| intestines | the tubes in your body through which food passes when it has left your**stomach** |
| molar | the large, flat teeth towards the back of your mouth that you use for chewingfood |
| muscles | something [inside](https://www.collinsdictionary.com/dictionary/english/inside) your body which [connects](https://www.collinsdictionary.com/dictionary/english/connect) two [**bones**](https://www.collinsdictionary.com/dictionary/english/bone) and which you usewhen you make a movement |
| nutrition | the process of [taking](https://www.collinsdictionary.com/dictionary/english/taking) food into the body and [**absorbing**](https://www.collinsdictionary.com/dictionary/english/absorb) the **nutrients** in thosefoods |
| oesophagus | the part of your body that carries the food from the throat to the **stomach** |
| omnivore | person or animal eats all [kinds](https://www.collinsdictionary.com/dictionary/english/kind) of food, including both [meat](https://www.collinsdictionary.com/dictionary/english/meat) and plants |
| organ | a part of your body that has a particular [purpose](https://www.collinsdictionary.com/dictionary/english/purpose) |
| plaque | a substance containing bacteria that forms on the surface of your **teeth** |
| premolar | two situated on each side of both **jaws** between the first **molar** and the**canine** |
| process | a series of actions used to produce something or reach a goal. |
| Saliva | the watery liquid that forms in your mouth and helps you to chew and digestfood |
| Stomach | the **organ** [inside](https://www.collinsdictionary.com/dictionary/english/inside) your body where food is **digested** before it moves into the[**intestines**](https://www.collinsdictionary.com/dictionary/english/intestine) |

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| * The parts of the human body and what they do.
* All animals need water, air and food to survive.
* The different ways in which humans are healthy.
* Animals get **nutrition** from what they eat.
* Humans and some animals have skeletons and

**muscles** for support, protection and movement.* What **carnivores, omnivores** and **herbivores** are.

**Excretion** is one of the seven living processes |
| What will I know by the end of the unit |
| What is the role of our **teeth** and how do we look after them? | * Teeth are used for cutting and chewing food.
* They start the **digestive process** which gives us the energy we need to live.
* Humans look after their teeth by brushing and flossing and

ensuring that they do not eat foods high in sugar.Not looking after teeth can lead to an increase in **plaque** and **tooth decay.** |
| What are thedifferent names and functions of human **teeth?** | * **Canines** are pointed for tearing and ripping food - these are usually used when chewing meat.
* **Incisors** are shovel shaped and help bite lumps out of and cut food.
* **Premolars** and **molars** are flat and they grind and crush food
 |
| * **Saliva** is mixed with the food which helps to break it up.
* When the food is small enough to be swallowed, it is pushed down the

**oesophagus** by **muscles** to the **stomach.*** In the **stomach,** food is mixed further.
* The mixed food is then sent to the small **intestine** which **absorbs nutrients** from the food.
* Any leftover broken down food then moves on to the large **intestine**.
* The food minus the nutrients arrives in the rectum where **muscles** turn it into **faeces.** It is stored here until it is pushed out by the anus. This is

called **excretion.**Oesophagus* The smell of food triggers **saliva** to be produced.
* The **digestive** system begins with the mouth and teeth where food is **ingested** and chewed.

**The Digestive System** |

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| Question 1: Place these in order of what happens in the digestive system. | Start of unit: | End of unit: |  | Question 2: Which of these life processes takes place whenwaste is pushed out? | Start of unit: | End of unit: |  | Question 3: The substance that contains bacteria on the surface of your teeth is called… | Start of unit: | End of unit: |  | Question 4: The substance that helps break down food in the mouth is… | Start of unit: | End of unit: |
| Teeth chew food and saliva helps the food to break down. |  |  | respiration |  |  | plaque |  |  | oesophagus |  |  |
| Any final nutrients are absorbed before waste is pushed out by the anus. |  |  | reproduction |  |  | canines |  |  | saliva |  |  |
| In the stomach the food is mixed further and then sent to the intestines |  |  | excretion |  |  | molars |  |  | nutrients |  |  |
| The food is pushed down the oesophagus to the stomach. |  |  |  |  |  | incisors |  |  | stomach |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Question 5: What carries food from the mouth to the stomach? | Start ofunit: | End ofunit: | Question 6: Tooth decay is when.. | Start ofunit: | End ofunit: |  |  |  |  |  |  |
| blood |  |  | teeth are used to chew |  |  |  |  |  |  |  |  |
| oesophagus |  |  | teeth are kept healthy |  |  |  |  |  |  |  |  |
| tongue |  |  | teeth are destroyed and damaged |  |  |  |  |  |  |  |  |
| teeth |  |  | teeth are brushed twice a day |  |  |  |  |  |  |  |  |
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| Question 7: Label the types of teeth: incisors, molars, premolars, canines |  |  | Question 8: Name two ways in which we can look after our teeth. | Start of unit: | End of unit: |
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| Question 9: Is this the skull of a carnivore, omnivore or herbivore? Explain how you know.Carnivore skull | Royal Ontario Museum, ROM, Toronto, 2017 ... | Start of unit: | End of unit: |
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| Question 10: Is this the skull of a carnivore, omnivore or herbivore? Explain how you know.Serina Brady | Start of unit: | End of unit: |
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