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| <b>Knowledge Organiser</b> | <b>Subject: Science</b> | <b>Topic: Eating and Digestion</b> | <b>Year: 4</b> |
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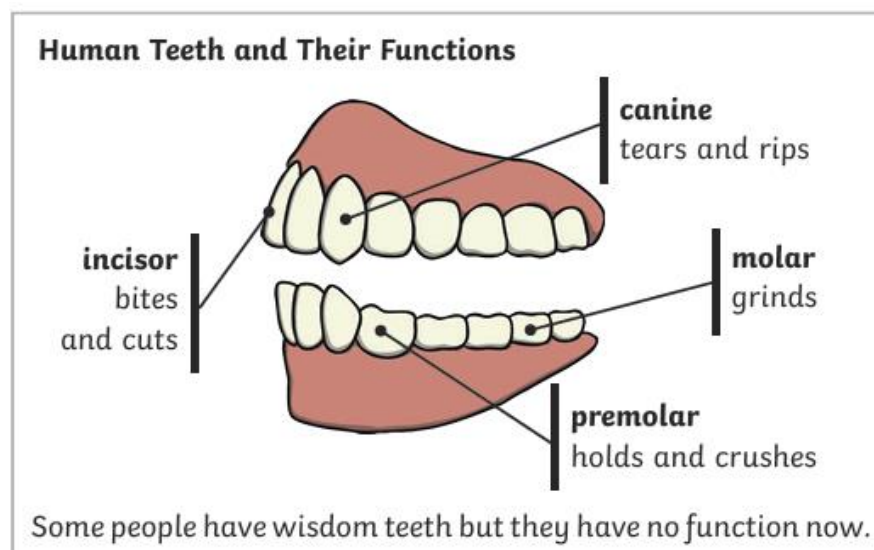
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| <p style="text-align: center;"><b><u>Key Knowledge</u></b></p> <p>Food enters through the mouth, where teeth break it down and saliva moistens it. The tongue forms it into a ball for swallowing. It passes down the oesophagus to the stomach, where it's further churned and mixed with chemicals. In the small intestine, nutrients are absorbed, and in the large intestine, water is removed. Waste is stored in the rectum and exits through the anus. Teeth types: incisors (cutting), canines (tearing), molars and premolars (grinding).</p> <p><b><u>Common Misconceptions</u></b></p> <ul style="list-style-type: none"><li>• Arrows in a food chain mean 'eats'.</li><li>• The death of one of the parts of a food chain or web has no, or limited, consequences on the rest of the chain.</li><li>• Food is digested only in the stomach.</li><li>• When you have a meal, your food goes down one tube and your drink down another.</li></ul> | <p><b><u>Key Learning</u></b></p> <ul style="list-style-type: none"><li>• Describe the simple functions of the basic parts of the digestive system in humans.</li><li>• Identify the different types of teeth in humans and their simple functions.</li><li>• Construct and interpret a variety of food chains, identifying producers, predators and prey.</li></ul> <p><b><u>Disciplinary Skills</u></b></p> <ul style="list-style-type: none"><li>• Identify, describe characteristics and sort</li><li>• Consider how different rocks can be tested</li><li>• Conduct practical erosion/permeability investigation</li><li>• Carrying out research</li></ul> |
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| <b>Key Concepts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                             |
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| <p><b>The Digestive Process</b></p> <p><b>Mouth to Stomach:</b> Food enters through the mouth, teeth break it down, saliva moistens, and the tongue forms a ball (bolus) to swallow. The food moves down the oesophagus to the stomach, where it's churned and mixed with digestive chemicals.</p> <p><b>Intestines:</b> In the small intestine, nutrients are absorbed. In the large intestine, water is removed, and waste is stored in the rectum before exiting via the anus.</p> | <p><b>Types and Functions of Teeth in Humans</b></p> <p>Incisors: Used for cutting food.</p> <p>Canines: Used for tearing food.</p> <p>Molars and Premolars: Used for grinding and chewing food, aiding in further breakdown before swallowing.</p> | <p><b>Key Learning Points</b></p> <p>Digestive System: Functions of each part.</p> <p>Teeth Functions: Identifying and understanding roles of each type.</p> <p>Food Chains: Identifying producers, predators and prey.</p> |



**What happens after we eat?**

| Key Vocabulary  |                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| digest          | Break down food so it can be used by the body.<br>oesophagus A muscular tube which moves food from the mouth to the stomach. |
| Stomach         | An organ in the digestive system where food is broken down with stomach acid and by being churned around.                    |
| Small intestine | Part of the intestine where nutrients are absorbed into the body.                                                            |
| Large intestine | Part of the intestine where water is absorbed from remaining waste food. Faeces are formed in the large intestine.           |
| Rectum          | Part of the digestive system where faeces are stored before leaving the body through the anus.                               |
| Teeth           | Hard structures in the mouth that help with biting and chewing food                                                          |



| Linking Thinking Across Our Learning Journey |                                                                                                                                      |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                 |                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Early Years                                  | Year One                                                                                                                             | Year Two                                                                                                                                                                                                                                                                       | Year Three                                                                                                                                                                                                      | Year Four                          | Year Five | Year Six                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                              | <p>Animals, including humans</p> <p>Identify and name a variety of common animals that are carnivores, herbivores and omnivores.</p> | <p>Animals, including humans</p> <p>Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).</p> <p>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</p> | <p>Animals, including humans</p> <p>Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</p> | <p><b>Eating and Digestion</b></p> |           | <p>Animals, including humans</p> <p>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.</p> <ul style="list-style-type: none"> <li>• Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.</li> <li>• Describe the ways in which nutrients and water are transported within animals, including humans.</li> </ul> |

The Digestive System

