

Nova's Human Body Bonanza: A Year 4 Science Challenge

Learning objective: To identify and describe the functions of the basic parts of the human digestive system and the role of human teeth.

Join Nova the barn owl on an anatomical adventure! Read each question carefully and select the best answer. Some questions require a quick one-word response, while others test your deeper understanding.

Answer Key: 1.C, 2.True, 3.False, 4.Oesophagus, 5.B, 6.True, 7.Molars, 8.The stomach mixes food with acid to break it down. 9.Enamel is the hard, protective outer layer of the tooth. 10.Answers may vary (e.g., to prevent tooth decay and keep gums healthy).

Word bank: Oesophagus · Incisors · Canines · Molars · Small intestine · Stomach · Digestion · Enamel

1. 1. Which type of teeth are used for tearing food? A) Incisors B) Molars C) Canines* D) Wisdom teeth (1 mark)

2. 2. True or False: Digestion begins in the mouth. (1 mark)

3. 3. True or False: The large intestine is where most nutrients are absorbed into the bloodstream. (1 mark)

4. 4. What is the name of the muscular tube that carries food from the mouth to the stomach? (1 mark)

5. 5. Which teeth are primarily used for grinding and crushing food? A) Incisors B) Molars* C) Canines D) Premolars (1 mark)

6. 6. True or False: Humans have different types of teeth because we have an omnivorous diet. (1 mark)

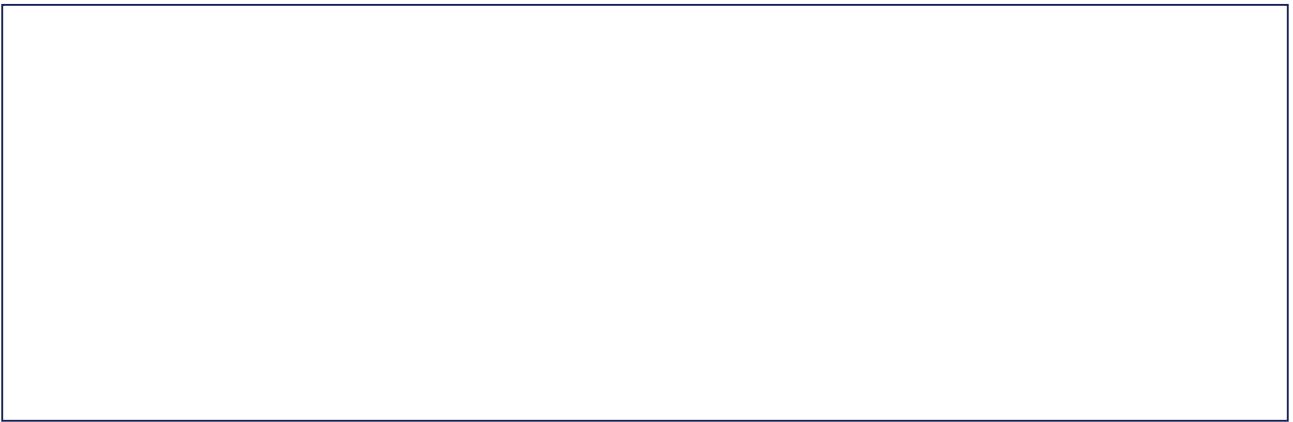
7. 7. Which teeth are located at the very back of the mouth: Incisors, Canines, or Molars? (1 mark)

8. 8. Explain why the stomach is a vital part of the digestive system. (1 mark)

9. 9. Compare the role of the tooth's enamel to a suit of armour. Why is it important? (1 mark)

10. 10. Justify why it is important for humans to brush their teeth at least twice a day. (1 mark)

Draw: Draw a diagram of the human digestive system. Label the mouth, oesophagus, stomach, and small intestine. Use your best artistic skills to show the path that a delicious apple takes!



Extension challenge: Nova asks: What might happen to the digestive process if a human did not have any teeth? Explain your reasoning. Compare and contrast how a herbivore's teeth might be different from a carnivore's teeth. If you could design a new type of tooth for humans, what would its shape be and what food would it be best at processing? Justify your creative invention.