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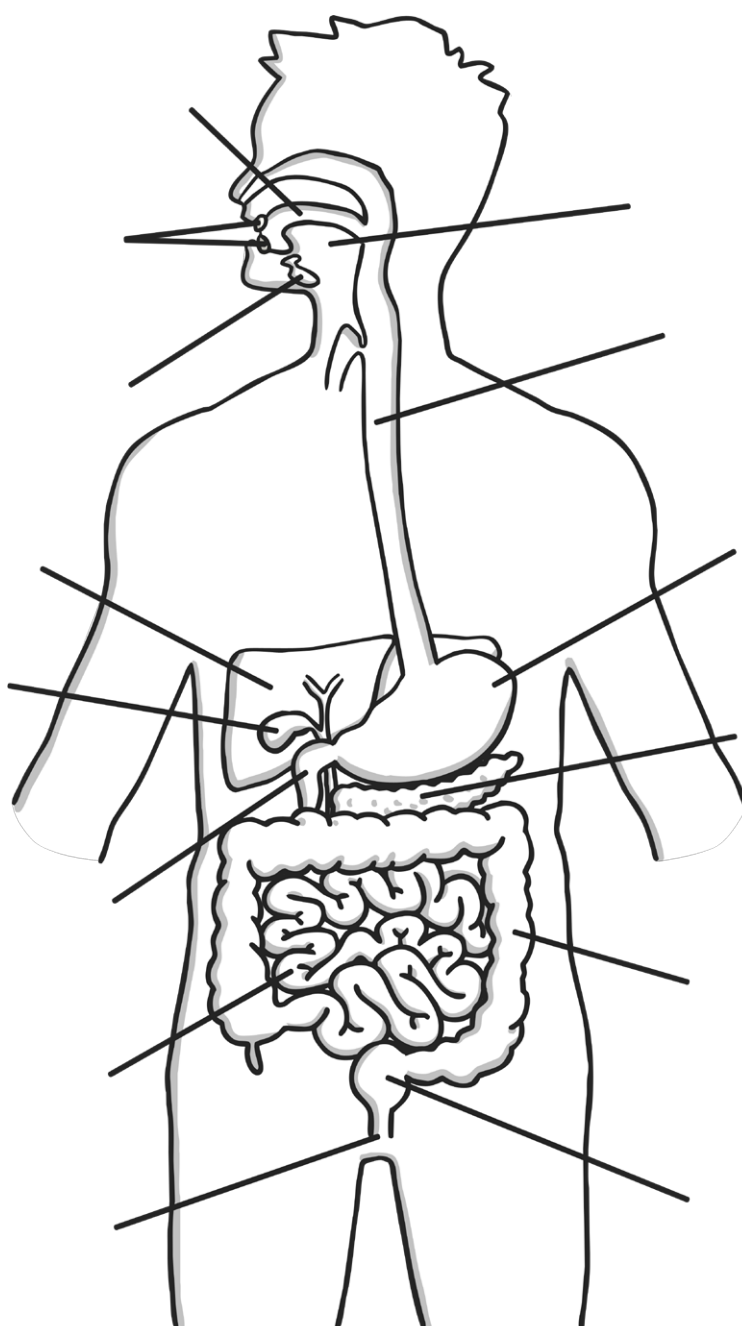
Date:

Science Assessment Year 4: Animals Including Humans



The Digestive System

1. Look at this diagram and choose 6 parts to label.



3 marks

Total for this page

2. Join the right part of the digestive system to its job.

Part of the digestive system
Saliva
Gall bladder
Liver
Duodenum
Oesophagus

Jobs
Releases bile into the duodenum when needed.
First part of the small intestine.
Helps chew, taste or swallow.
A muscular tube which forms the path from the mouth to the stomach.
Produces bile which helps to absorb fats.

3. In the stomach, along with other parts of the body, you will find glands and enzymes:

a) What do glands do?

.....

b) What do enzymes do?

.....

3 marks

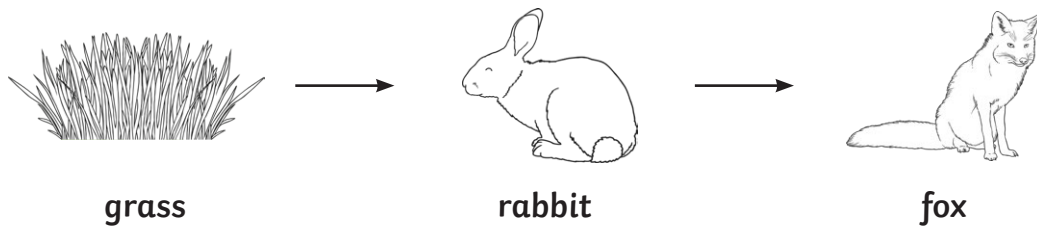
1 mark

1 mark

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Food Chains

4. Here is a simple food chain:



a) In this diagram, what do the arrows mean/show?

.....

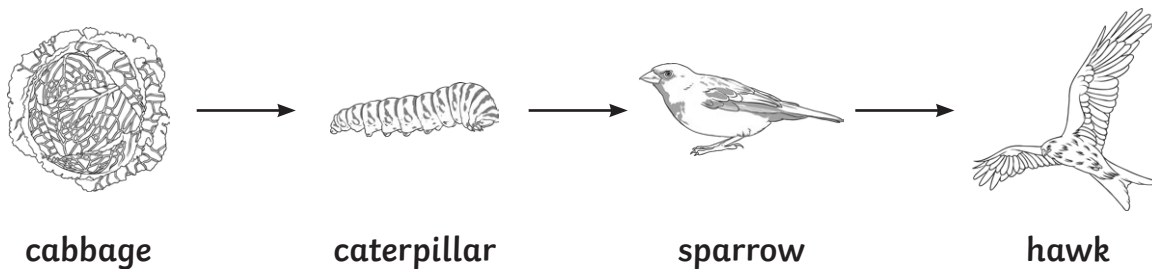
1 mark

b) What is the first item in any food chain called?

.....

1 mark

5. Which is the tertiary consumer in this food chain?



.....

1 mark

6. What do these words mean?

a) Herbivore

.....

1 mark

b) Omnivore

.....

1 mark

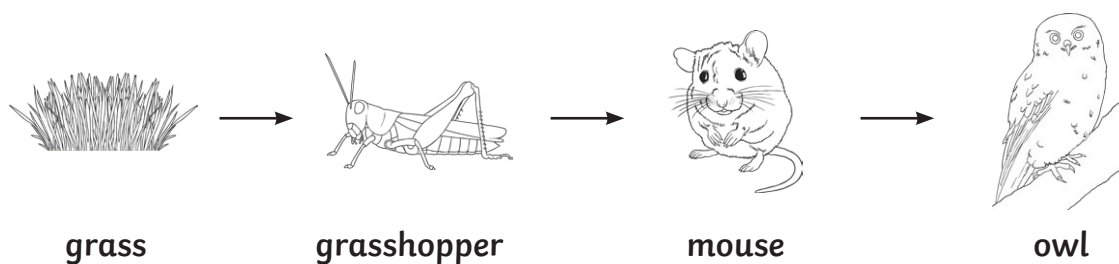
c) Detritivore

.....

1 mark

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this page

7. Look at this food chain:



a) Which is the predator?

.....

1 mark

b) Which is the prey?

.....

1 mark

Teeth

8. How many incisors does a human have?

.....

1 mark

9. What is the function of:

a) Canine teeth?

.....

1 mark

b) Molars?

.....

1 mark

10. What is the name of the white, outside part of the tooth?

.....

1 mark

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this page

Tooth Decay Investigation

A group of Year 4 children are investigating how different liquids can affect teeth. They decide to use boiled eggs (with shells still on) instead of teeth as they contain lots of calcium, similar to teeth.

They are going to leave a boiled egg, still in its shell in different liquids for two days and watch what happens.

11. What is the independent variable in this test?

1 mark

12. What variable needs to stay the same?

1 mark

All the eggs were the same at the start. They were light brown in colour, a bit rough to touch and hard boiled.

Here are the results of the test:

Liquid	What the egg looked like after 1 day in the liquid	What the egg looked like after 2 days in the liquid
Water	No change	No change
Vinegar	The shell looks nearly transparent	All the shell has dissolved
Cola	Shell a bit browner in colour and started to dissolve the shell	Darker again in colour and half the shell has dissolved
Milk	No change	No change
Orange Juice	Large parts of the shell have dissolved	Egg is much lighter in colour and most of the shell has dissolved

Total for this page

13. Which liquid do you think would cause the most tooth decay based on these results?

1 mark

14. Which liquid is best for your teeth based on this test?

1 mark

15. Why did the group of children put one egg in water?

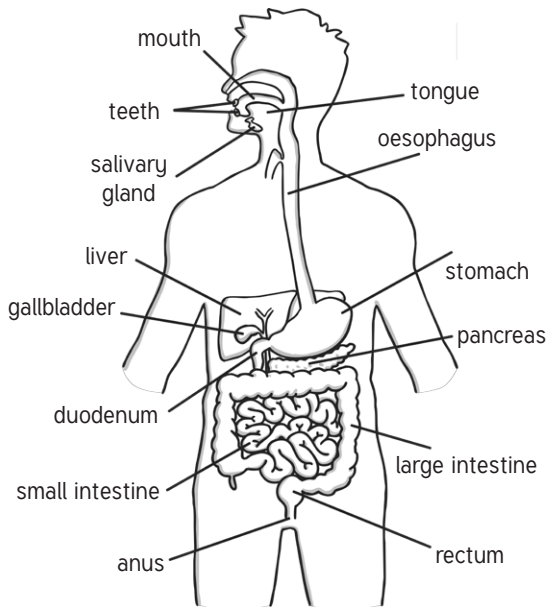
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Answer Sheet: Science Assessment Year 4:

Animals Including Humans



question	answer	marks	notes												
1. Look at this diagram and choose 6 parts to label.															
		3	Maximum 3 marks 0 for 1 correct 1 for 2 or 3 correct 2 for 4 or 5 correct 3 for 6 correct												
2. Join the right part of the digestive system to its job.															
	<table border="1"><thead><tr><th>Part of the digestive system</th><th>Jobs</th></tr></thead><tbody><tr><td>Saliva</td><td>Releases bile into the duodenum when needed.</td></tr><tr><td>Gall bladder</td><td>First part of the small intestine.</td></tr><tr><td>Liver</td><td>Helps chew, taste or swallow.</td></tr><tr><td>Duodenum</td><td>A muscular tube which forms the path from the mouth to the stomach.</td></tr><tr><td>Oesophagus</td><td>Produces bile which helps to absorb fats.</td></tr></tbody></table>	Part of the digestive system	Jobs	Saliva	Releases bile into the duodenum when needed.	Gall bladder	First part of the small intestine.	Liver	Helps chew, taste or swallow.	Duodenum	A muscular tube which forms the path from the mouth to the stomach.	Oesophagus	Produces bile which helps to absorb fats.	3	Maximum 3 marks 0 for 1 correct 1 for 2 correct 2 for 3 or 4 correct 3 marks for 5 correct
Part of the digestive system	Jobs														
Saliva	Releases bile into the duodenum when needed.														
Gall bladder	First part of the small intestine.														
Liver	Helps chew, taste or swallow.														
Duodenum	A muscular tube which forms the path from the mouth to the stomach.														
Oesophagus	Produces bile which helps to absorb fats.														
3. In the stomach, along with other parts of the body, you will find glands and enzymes:															
a	Release fluids	1	Accept answers that give a specific fluid example.												
b	Break things/food down	1													
4. Here is a simple food chain:															
a	<ul style="list-style-type: none">The 'eater'The one doing the eatingThe transfer of energy	1													
b	<ul style="list-style-type: none">The producerAutotroph	1	Accept spelling errors where the intention is clear.												

question	answer	marks	notes
5. Which is the tertiary consumer in this food chain?			
	The hawk	1	
6. What do these words mean?			
a	<ul style="list-style-type: none">An animal that only eats plantsVegan	1	
b	<ul style="list-style-type: none">An animal that only eats meatMeat eater	1	
c	<ul style="list-style-type: none">Eats decomposing matterEats dead animals and/or plantsEats detritusEats faeces/poo/animal waste	1	
7. What do these words mean?			
a	<ul style="list-style-type: none">MouseOwlMouse and owl	1	1 mark for a correct answer. In class feedback, ensure the children understand that the mouse is both a predator and prey.
b	<ul style="list-style-type: none">MouseGrasshopperMouse and grasshopper	1	
8. How many incisors does a human have?			
	8/eight	1	
9. What is the function of:			
a	Rip/tear	1	1 mark for the correct answer. 0 marks for 'slice' (this is the function of an incisor).
b	<ul style="list-style-type: none">ChewCrushGrind	1	
10. What is the name of the white, outside part of the tooth?			
	Enamel	1	
11. What is the independent variable in this test?			
	The type of liquid	1	
12. What variable needs to stay the same?			
	<ul style="list-style-type: none">The size/colour of eggsSame amount of liquidTime eggs are left in liquidSame size/type of container	1	

question	answer	marks	notes
13. Which liquid do you think would cause the most tooth decay based on these results?			
	Vinegar	1	
14. Which liquid is best for your teeth based on this test?			
	<ul style="list-style-type: none"> • Milk • Water • Milk and water 	1	
15. Why did the group of children put one egg in water?			
	<ul style="list-style-type: none"> • For a control egg • To compare the other eggs to it 	1	
		total 25	