

Name:

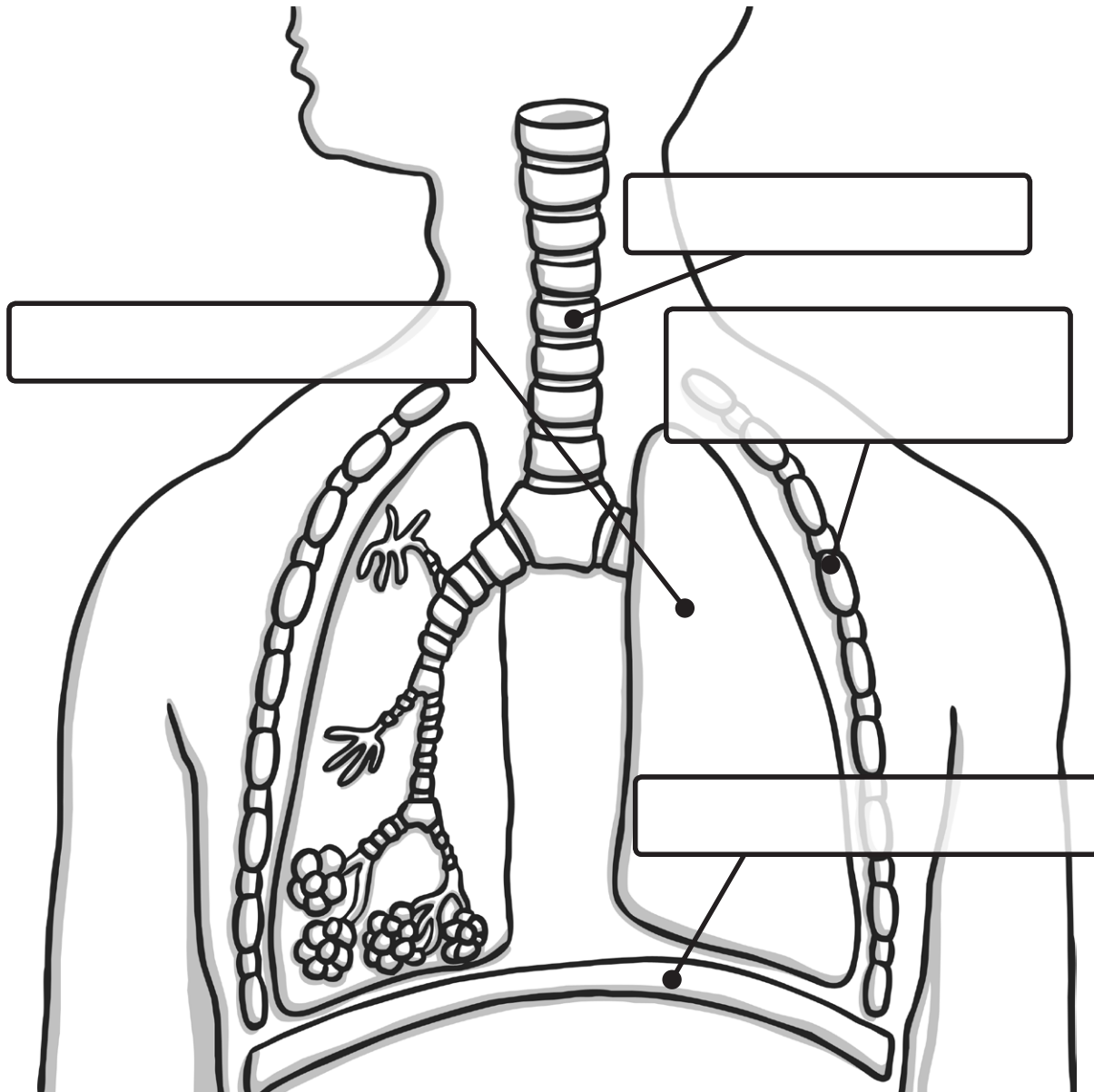
Date:

Science Assessment Year 6: Animals Including Humans



Respiratory System

1. Label this diagram:



3 marks

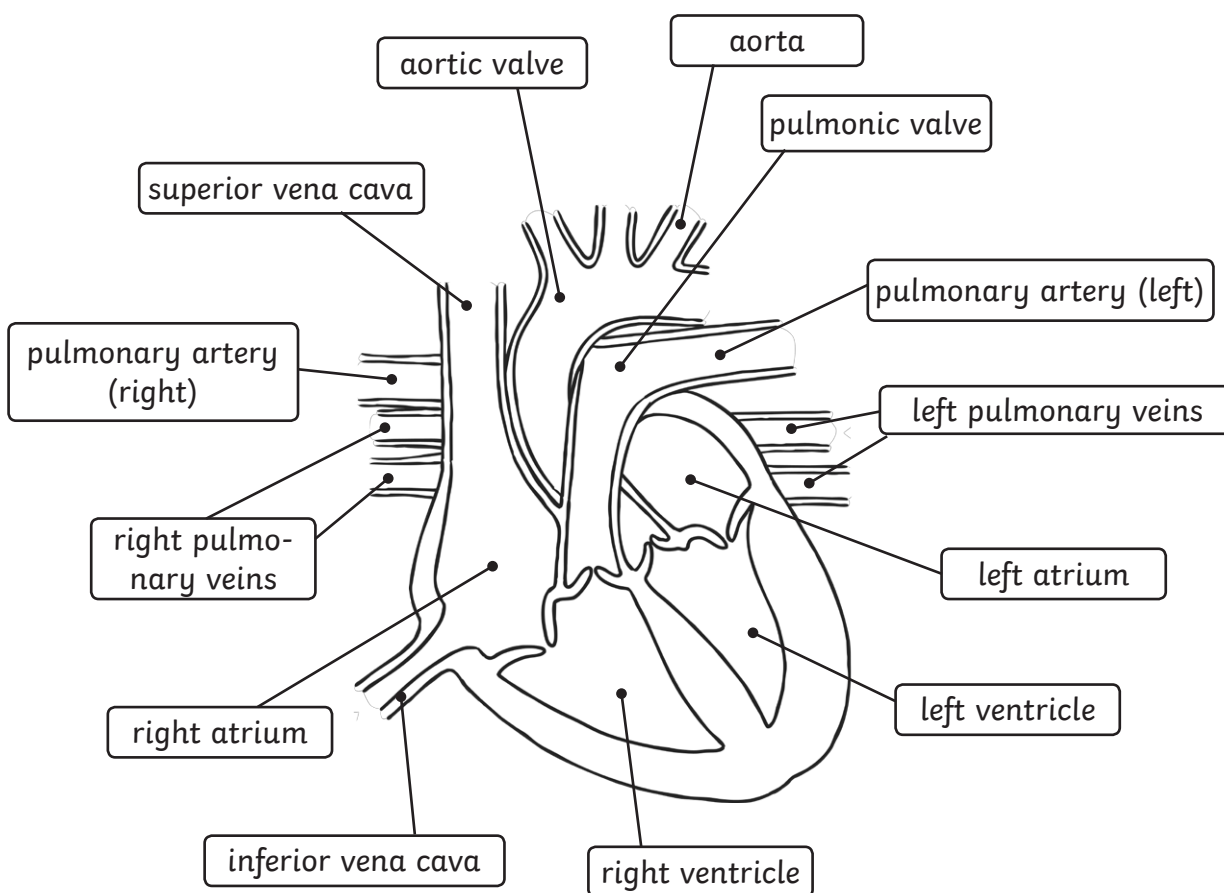
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2. Circle the three main parts of the body involved in the circulatory system:

- | | | |
|---------|-------|---------|
| blood | liver | muscles |
| stomach | lungs | heart |
| | bones | |

1 mark

3. Look at this diagram of the heart and answer the questions below:



a) Which part of the body do the pulmonary arteries and veins link to?

1 mark

b) What do valves do?

1 mark

c) When the blood leaves the heart a second time and is pumped around the whole of the body what is the blood carrying.

1 mark

Total for this page

4. One of the jobs your circulatory system does is carry blood around the body. What are the jobs of these blood vessels in that system and what gases do they carry if any?

a) Arteries:

b) Veins:

c) Capillaries:

2 marks

5. Think about how our lungs work.

a) What gas do we use from the many gases in the air we breathe in?

b) What gas do we get rid of from our body when we exhale?

1 mark

6. Fill in the correct words in the blank spaces:

Stomach acids break down food into _____. This then goes through the _____ where bile and _____ break down larger molecules into smaller parts.

1 mark



Total for this page

Nutrients

7. Join up each nutrient to a food example and the job it does in your body.

| Nutrient | Food | Job |
|-----------------------|------------|--|
| Protein | Vegetables | Small amounts to stay healthy |
| Carbohydrate | Olive Oil | Provides energy |
| Fibre | Chicken | Cells and body fluids |
| Fat | Salt | Provides energy and can be stored for warmth but too much is unhealthy |
| Vitamins and Minerals | Juice | Roughage to help food move in through the body |
| Water | Bread | Growth and repair |

5 marks

8. Put these parts of the digestive system in the order food passes through the body:

| | Number 1-5 |
|-----------------|------------|
| Small intestine | |
| Mouth | |
| Stomach | |
| Oesophagus | |
| Large intestine | |

1 mark

Exercise

9. Circle all the statements that are true about exercise:

Exercise must raise your heart rate.

You have to sweat a lot to be doing it right.

Exercise works muscles.

Old people shouldn't exercise.

Exercise requires some effort.

You have to go to the gym to exercise.

1 mark

Total for this page

Drugs and Alcohol

10. Write True or False for these statements:

| Statement | True or False? |
|--|----------------|
| All drugs are addictive | |
| Cannabis is a plant | |
| E-Cigarettes are safe and contain no drugs | |
| Coffee is a type of drug | |
| Adults can buy 16 and 17 year olds alcohol to have with a meal | |

2 marks

11. Name **two** reasons why people might take drugs?

1. _____

2. _____

1 mark

12. What impact does alcohol have on these parts of the body?

a) Heart:

1 mark

b) Brain:

1 mark

c) Liver:

1 mark

13. Name three effects that cannabis has on the brain:

1. _____

2. _____

3. _____

1 mark

Total for this page

Answer Sheet: Science Assessment Year 6:

Animals Including Humans



| question | answer | marks | notes |
|--|--|-------|--|
| 1. Label this diagram. | | | |
| a | | 3 | <p>Marks 3: 0 for 1 correct, 1 for 2 correct, 2 for 3 correct, 3 for 4 correct.</p> <p>Accept errors in spelling where the intention is clear.</p> |
| 2. Circle the three main parts of the body involved in the circulatory system:: | | | |
| | <ul style="list-style-type: none"> • Blood • Heart • Lungs | 1 | Answers 1 mark for getting all 3 correct. |
| 3. Look at this diagram of the heart and answer the questions below: | | | |
| a | (The) Lungs | 1 | |
| b | <ul style="list-style-type: none"> • Open and close blood vessels • Open and close • Stop and start letting blood through | 1 | |
| c | Oxygen/O ₂ | 1 | |
| 4. One of the jobs your circulatory system does is carry blood around the body. What are the jobs of these blood vessels in that system and what gases do they carry if any? | | | |
| a | Carry (blood with) oxygen away from the heart (to go to the rest of the body) | 2 | 0 marks for 0-1 correct 1 mark for 2 correct 2 marks for all 3 correct |
| b | Carry (blood with) carbon dioxide back to the heart (to then go to the lungs to be expelled) | | Both the gas (oxygen or carbon dioxide or both) and the function must be mentioned to get the mark. |
| c | They link arteries and veins to cells and carry (blood with) oxygen and (blood with) carbon dioxide between them. | | Accept O ₂ for oxygen and CO ₂ for carbon dioxide. Accept oxygenated/ deoxygenated blood for 'blood with' Do not accept 'carbonated' or 'carbon-dioxided blood' to mean deoxygenated. |
| 5. Think about how our lungs work: | | | |
| a | Oxygen/O ₂ | 1 | 1 mark for both correct answers. |
| b | Carbon dioxide/CO ₂ | | |

| question | answer | marks | notes |
|----------|--------|-------|-------|
|----------|--------|-------|-------|

6. Fill in the correct words in the blank spaces.

| | | | |
|--|---|---|--|
| | Stomach acids break down food into chyme This then goes through the duodenum where bile and enzymes break down larger molecules into smaller parts. | 1 | Accept spelling errors where the intention is clear. |
|--|---|---|--|

7. Join up each nutrient to a food example and the job it does in your body.

| | <table border="1"> <thead> <tr> <th>Nutrient</th> <th>Food</th> <th>Job</th> </tr> </thead> <tbody> <tr> <td>Protein</td> <td>Vegetables</td> <td>Small amounts to stay healthy</td> </tr> <tr> <td>Carbohydrate</td> <td>Olive Oil</td> <td>Provides energy</td> </tr> <tr> <td>Fibre</td> <td>Chicken</td> <td>Cells and body fluids</td> </tr> <tr> <td>Fat</td> <td>Salt</td> <td>Provides energy and can be stored for warmth but too much is unhealthy</td> </tr> <tr> <td>Vitamins and Minerals</td> <td>Juice</td> <td>Roughage to help food move in through the body</td> </tr> <tr> <td>Water</td> <td>Bread</td> <td>Growth and repair</td> </tr> </tbody> </table> | Nutrient | Food | Job | Protein | Vegetables | Small amounts to stay healthy | Carbohydrate | Olive Oil | Provides energy | Fibre | Chicken | Cells and body fluids | Fat | Salt | Provides energy and can be stored for warmth but too much is unhealthy | Vitamins and Minerals | Juice | Roughage to help food move in through the body | Water | Bread | Growth and repair | 5 | Answers total of 5 marks available: 0 for 1 correct 1 for 2 correct 2 for 3 correct 3 for 4 correct 4 for 5 correct 5 for 6 correct. |
|-----------------------|--|--|------|-----|---------|------------|-------------------------------|--------------|-----------|-----------------|-------|---------|-----------------------|-----|------|--|-----------------------|-------|--|-------|-------|-------------------|---|--|
| Nutrient | Food | Job | | | | | | | | | | | | | | | | | | | | | | |
| Protein | Vegetables | Small amounts to stay healthy | | | | | | | | | | | | | | | | | | | | | | |
| Carbohydrate | Olive Oil | Provides energy | | | | | | | | | | | | | | | | | | | | | | |
| Fibre | Chicken | Cells and body fluids | | | | | | | | | | | | | | | | | | | | | | |
| Fat | Salt | Provides energy and can be stored for warmth but too much is unhealthy | | | | | | | | | | | | | | | | | | | | | | |
| Vitamins and Minerals | Juice | Roughage to help food move in through the body | | | | | | | | | | | | | | | | | | | | | | |
| Water | Bread | Growth and repair | | | | | | | | | | | | | | | | | | | | | | |

8. Put these parts of the digestive system in the order food passes through the body:

| | <table border="1"> <thead> <tr> <th></th> <th>Number 1–5</th> </tr> </thead> <tbody> <tr> <td>Small intestine</td> <td>4</td> </tr> <tr> <td>Mouth</td> <td>1</td> </tr> <tr> <td>Stomach</td> <td>3</td> </tr> <tr> <td>Oesophagus</td> <td>2</td> </tr> <tr> <td>Large intestine</td> <td>5</td> </tr> </tbody> </table> | | Number 1–5 | Small intestine | 4 | Mouth | 1 | Stomach | 3 | Oesophagus | 2 | Large intestine | 5 | 1 | |
|-----------------|--|--|------------|-----------------|---|-------|---|---------|---|------------|---|-----------------|---|---|--|
| | Number 1–5 | | | | | | | | | | | | | | |
| Small intestine | 4 | | | | | | | | | | | | | | |
| Mouth | 1 | | | | | | | | | | | | | | |
| Stomach | 3 | | | | | | | | | | | | | | |
| Oesophagus | 2 | | | | | | | | | | | | | | |
| Large intestine | 5 | | | | | | | | | | | | | | |

9. Circle all the statements that are true about exercise.

| | | | |
|--|---|---|---|
| | <p>Exercise must raise your heart rate. You have to sweat a lot to be doing it right. Exercise works muscles.</p> <p>Old people shouldn't exercise. Exercise requires some effort. You have to go to the gym to exercise.</p> | 1 | 1 mark for all 3 chosen and no incorrect ones chosen. |
|--|---|---|---|

10 Write True or False for these statements.

| | <table border="1"> <thead> <tr> <th>Statement</th> <th>True or False?</th> </tr> </thead> <tbody> <tr> <td>All drugs are addictive</td> <td>False</td> </tr> <tr> <td>Cannabis is a plant</td> <td>True</td> </tr> <tr> <td>E-Cigarettes are safe and contain no drugs</td> <td>False</td> </tr> <tr> <td>Coffee is a type of drug</td> <td>True</td> </tr> <tr> <td>Adults can buy 16 and 17 year olds alcohol to have with a meal</td> <td>True</td> </tr> </tbody> </table> | Statement | True or False? | All drugs are addictive | False | Cannabis is a plant | True | E-Cigarettes are safe and contain no drugs | False | Coffee is a type of drug | True | Adults can buy 16 and 17 year olds alcohol to have with a meal | True | 2 | 0 marks for 0-1 correct 1 mark for 2,3 or 4 correct 2 marks for all 5 correct |
|--|---|-----------|----------------|-------------------------|--------------|---------------------|-------------|--|--------------|--------------------------|-------------|--|-------------|---|---|
| Statement | True or False? | | | | | | | | | | | | | | |
| All drugs are addictive | False | | | | | | | | | | | | | | |
| Cannabis is a plant | True | | | | | | | | | | | | | | |
| E-Cigarettes are safe and contain no drugs | False | | | | | | | | | | | | | | |
| Coffee is a type of drug | True | | | | | | | | | | | | | | |
| Adults can buy 16 and 17 year olds alcohol to have with a meal | True | | | | | | | | | | | | | | |

| question | answer | marks | notes |
|--|---|-------------|--|
| 11. Name two reasons why people might take drugs? | | | |
| | <ul style="list-style-type: none"> • fun/excitement. • (they think) it will make them feel good. • Because they are bored. • Because their friends or family take them. • Because they are addicted to them. | 1 | 1 mark for any two correct. |
| 12. What impact does alcohol have on these parts of the body? | | | |
| a | Can increase good cholesterol (when taken in small amounts) (can prevent blood clots in arteries) | 1 | |
| b | Loss of ability to speak properly Memory loss Violent/aggressive behaviour Can cause high blood pressure Addiction/withdrawal symptoms (can be fatal) | 1 | |
| c | Damage/failure/cirrhosis | 1 | |
| 15. Name three effects that cannabis has on the brain. | | | |
| | <ul style="list-style-type: none"> • Make you feel happy / relaxed • Hallucinations/can make you see things that aren't there/real • Makes memory worse • Difficult to concentrate • (Leads to) serious long term mental health problems | 1 | 1 mark for any three correct answers. |
| | | total 26 | |