

# Animal Gas Exchange and System Interaction

Use this worksheet after reading the lesson to practise the key ideas and prove you can meet the success criteria.

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

## 1. Key Ideas

Animals need gas exchange as well as transport. This lesson explains the basic role of the respiratory system, then links gas exchange to the circulatory system so students can see how systems interact rather than acting alone.

- the respiratory system has a basic gas-exchange role
- gas exchange and transport are connected processes

## 2. Success Criteria

By the end, you should be able to:

- the respiratory system has a basic gas-exchange role
- oxygen enters and carbon dioxide leaves through gas exchange
- the circulatory system helps move gases around the body

## 3. Key Terms

### Respiratory system

The body system involved in gas exchange with the environment.

### Gas exchange

The movement of gases between an organism and its environment.

### Oxygen

A gas taken into the body through gas exchange.

### Carbon dioxide

A gas removed from the body through gas exchange.

### System interaction

When body systems depend on one another to achieve a larger function.

### Circulatory system

The transport system that moves substances around the body.

## 4. Activity: Build the Lesson Map

Use the lesson to complete the table. Keep answers brief but specific.

Prompt	Your answer
Main concept	
Important example	
Common mistake to avoid	
How this links to the next lesson	

## 5. Short Answer Questions

1. Explain this lesson goal in your own words: "the respiratory system has a basic gas-exchange role". Use one specific example from the lesson.

CORE

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2. Apply this idea to a new example: "oxygen enters and carbon dioxide leaves through gas exchange". Show your reasoning clearly.

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3. Analyse why this idea matters for understanding Animal Gas Exchange and System Interaction: "the circulatory system helps move gases around the body".

REASONING

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## 6. Extend: Apply the Idea

**A student says, "I understand Animal Gas Exchange and System Interaction because I memorised the definition."**

Explain why memorising a definition is not enough. Use an example from the lesson to show deeper understanding.

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## 7. Multiple Choice

1. What is the best first step when answering a question about Animal Gas Exchange and System Interaction?

- A. Identify the key concept being tested
- B. Write every fact from memory
- C. Ignore the command word
- D. Skip examples and evidence

2. Which answer would show stronger understanding of Animal Gas Exchange and System Interaction?

- A. An answer with accurate terms and reasoning
- B. A copied definition only
- C. A single-word response
- D. An answer with no example

3. What should you do if a question asks you to explain?

- A. Link the idea to a reason or cause
- B. List unrelated facts
- C. Only draw a diagram
- D. Write the shortest possible answer

## 8. Success Criteria Proof

Finish with evidence that you can do each success criterion.

### SUCCESS CRITERION 1

**Prove that you can: the respiratory system has a basic gas-exchange role**

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### SUCCESS CRITERION 2

**Prove that you can: oxygen enters and carbon dioxide leaves through gas exchange**

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### SUCCESS CRITERION 3

**Prove that you can: the circulatory system helps move gases around the body**

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**One thing I still need help with:**

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