

Inside the Atom - Protons, Neutrons and Electrons

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

This lesson opens the atomic-structure block by naming the three main subatomic particles and placing them correctly in a simple atom model.

- atoms contain protons, neutrons and electrons
- particle charge helps distinguish the three particles

2. Success Criteria

By the end, you should be able to:

- atoms contain protons, neutrons and electrons
- protons and neutrons are in the nucleus
- electrons are found outside the nucleus

3. Key Terms

Key idea

The central concept from Inside the Atom - Protons, Neutrons and Electrons.

Evidence

Information, observations or calculations used to support an answer.

Explain

Give a reasoned answer that links cause and effect.

Apply

Use a learned idea in a new example, problem or scenario.

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: "atoms contain protons, neutrons and electrons". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "protons and neutrons are in the nucleus". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Inside the Atom - Protons, Neutrons and Electrons: "electrons are found outside the nucleus".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Inside the Atom - Protons, Neutrons and Electrons because I memorised the definition."

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

7. Multiple Choice

1. What is the best first step when answering a question about Inside the Atom - Protons, Neutrons and Electrons?

- 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 Inside the Atom - Protons, Neutrons and Electrons?

- 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: atoms contain protons, neutrons and electrons

SUCCESS CRITERION 2

Prove that you can: protons and neutrons are in the nucleus

SUCCESS CRITERION 3

Prove that you can: electrons are found outside the nucleus

One thing I still need help with:
