

Name:

Due Date: Term 4 Week 8

Stage 3 Science – Mysterious Matter

Objective:

Students will investigate different materials and their properties, focusing on the concept of matter and how it can change.

Task Overview:

Students will conduct an investigation on a specific material, explore its properties, and present their findings in a creative format.

Assessment Criteria:

- Understanding of material properties and their applications (demonstrated through observations and explanations).
- Creativity and clarity in the presentation format.
- Ability to reflect on the learning experience.

Instructions

Choose an Experiment:

Select one of the following materials to investigate:

- Water
- Plastic (e.g., a bottle or bag)
- Wood (e.g., a pencil or a small piece of wood)
- Fabric (e.g., a piece of cloth or clothing)

Research the Material:

Use books, online resources, or other materials to gather information about your chosen material. Consider the following:

- What is the material made of?
- What are its physical properties (colour, texture, density, etc.)?
- What are its uses in everyday life?

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- How does it behave under different conditions (e.g., heat, pressure)?

Conduct Simple Investigations:

Perform at least two simple experiments or tests to explore the properties of your material. Some ideas include:

- **Water:** Freeze it to observe changes in state and measure temperature before and after.
- **Plastic:** Test its flexibility by bending it and observing if it returns to its original shape.
- **Wood:** Check for buoyancy by placing it in water.
- **Fabric:** Test its absorbency by dropping water on it.

Record Your Observations:

- The material tested
- Description of the tests conducted
- Observations during each test
- Any changes observed in the material

Make a poster demonstrating your findings

Name:

Select one of the following materials:

- Water
- Plastic (e.g., a bottle or bag)
- Wood (e.g., a pencil or a small piece of wood)
- Fabric (e.g., a piece of cloth or clothing)

What is the material made of and what are its physical properties?

Properties: Can you describe its colour, texture or density?

What are its uses in everyday life?

Name:

What happens to the material under different conditions?

Heat, cold, pressure etc.

Describe your two simple experiments

Experiment 1

Experiment 2

What equipment will you need?

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-
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What equipment will you need?

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Name:

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|---|---|
| <p>Describe the process of your investigation:</p> <p>How did you set it up? What did you do first? What did you do next? What did you last?</p> | <p>Describe the process of your investigation:</p> <p>How did you set it up? What did you do first? What did you do next? What did you last?</p> |
| <p>Set up:</p> | <p>Set up:</p> |
| <p>First:</p> | <p>First:</p> |

Name:

| | |
|--------------|--------------|
| Next: | Next: |
| Then: | Then: |

Name:

| | |
|-------------|-------------|
| Last | Last |
|-------------|-------------|

| |
|---|
| Record your observations |
| What did you observe during your experiment? Did you observe any changes in the material? |

Name:

Draw a diagram of what you observed

A large, empty rectangular box with a thin black border, intended for drawing a diagram. The box is positioned below the instruction text and occupies most of the page's vertical space.

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Reflection

Write one paragraph summarising your investigation and findings:

Prompts to consider for your summary:

What did you learn about your material? How do the properties of the material affect its uses? Were there any challenges you faced during your investigation?

Create a poster

Create a poster that includes:

- Title of your investigation
- Information about the material (properties and uses)
- Observations and results from your tests
- Drawings or photos of your experiments