An inquiry into the natural world and its laws, the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.

Central Idea
Materials exist in different states and can be changed

ESSENTIAL ELEMENTS OF PYP

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<th>Knowledge</th>
<th>The different states of matter and the process it takes to make reversible and irreversible changes</th>
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<td>What do we want students to be able to do?</td>
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<td>What do we want students to feel, value and demonstrate?</td>
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Lines of Inquiry

- There are different states of matter
- Changes in material can be reversible and irreversible
- The properties of materials can have an effect on the environment
Knowledge
After completing this unit you will:

• Be able to classify a range of simple materials according to criteria you can explain

• Understand the difference between reversible and irreversible changes

• Understand the correct process for conducting an experiment

• Be able to collect data and display it in different ways

Information for Parents

The science-based inquiry is designed to give students hands on experience with different materials so they can establish what properties they have and how they may change or be changed.

Underlying some of the experiments will be concepts such as reversible (physical) and irreversible (chemical) changes. Students will explore the states of matter, i.e. solids, liquids and gases.

During the inquiry, students will be learning scientific behaviours such as observing, recording and developing hypotheses. They will view and conduct experiments.

How can you help at home?

✓ Assist your child as they explore the properties of different materials and experiment with them

✓ Be available to discuss any questions that your child may have relating to their inquiry

✓ Encourage your child to gain further understanding through research and reading