

Unit 2: Year 2

How the World Works

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:

People use and change materials to suit their needs.

Concepts: Function and Change

Lines of inquiry:

- Properties of materials
- Changing materials
- Choosing materials for specific purposes



Throughout this unit the students will:

- explore where matter comes from via tracing back human made materials to its raw source
- sort and classify materials
- learn how to choose materials based on its properties and for a purpose
- understand that the function and choice of materials are based on the properties and purpose for use
- discuss the sustainability of materials
- investigate how materials can be changed-reversible and irreversible changes
- develop their vocabulary in relation to the terms used in this unit, for example: waterproof, malleable, opaque, transparent, dissolving, melting, heating, cooling
- learn about persuasive texts
- develop their comprehension skills and learn how to determine importance and re-telling of texts

Skills for this unit:

Research: *organising data*-students will learn how to sort and categorise information and arrange information into understandable forms

Thinking skills:- *evaluation*-students will practise to make judgments or decisions based on standards and conditions.



Summative (end of unit) Task: Using their knowledge of materials students will be given a choice of various real life problems to solve (e.g. they go to the beach for the day but forget their hat). To solve this problem they have to identify an item that is missing and the materials they could use to make this item or something that does the same job (e.g. something to cover themselves from the sun in place of the hat), what its properties are, and if the changes are reversible or irreversible. Students will be expected record their understanding using a linear graphic organiser/flow chart.