

## Unit 2: Year 6

# 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:

**Changes to materials pose challenges and benefits to us**

#### Focus skills for this unit

##### **Thinking:**

*Comprehension*-students will grasp meaning from various sources of material and communicate and interpret this learning

*Evaluation*-students will be expected to make judgments or decisions based on chosen criteria, standards and/or conditions

##### **Research:**

*Organising data*-using various types of forms students will sort and categorise information

##### **Self management:**

*Organisation*-students will focus on developing skills to plan and carrying out activities effectively.

**Key concepts:** form, change and responsibility

#### **Lines of Inquiry:**

- Nature of chemical and physical changes
- Practical applications of change in materials
- Implications of change associated with manufacturing processes



#### **Throughout this unit the students will:**

- learn and investigate the properties of materials (solids, liquid, gas)
- explore reversible and irreversible changes
- classify materials
- investigate why are some materials more suitable than others
- consider the processes that lead to the formation of natural and human made materials including by-products
- investigate the range of challenges and benefits that changes to materials brings to us
- will understand that all materials have different properties and these determine what they are used for
- will understand that both consumers and manufacturers have many responsibilities

**Summative Task:** Students will show their understanding of the central idea by applying their understanding to a set task. They will be expected to choose food and/or items from options given by the teacher. They will be asked to explain the changes that have taken place for that item/food and the range of possible challenges and benefits of these changes.

