

## **CHANGING NATURAL MATERIALS**

### **KEY IDEAS**

- Some natural (raw) materials can be used in their original state
- Manufactured (processed) materials are raw materials that have been changed from their natural state into a new state

### **EXAMPLE QUESTIONS**

- What natural materials do you use?
- What materials do you use that have been manufactured?
- How are manufactured materials different from natural materials?

### **SOME MATERIALS ARE NATURAL**

- Raw materials are those natural materials that exist in the world, unchanged by humans, such as wood, coal, rock, water, air and bone etc
- People and animals make use of natural materials for a variety of purposes.
- Many of these purposes require the material to be adapted for use (for example, cut, shaped or secured), but the state of the material itself is not changed.
- Although many raw materials, such as trees, replenish naturally, it can take a long time.
- Some raw materials may disappear from the Earth unless consumption of them is carefully managed.

### **SOME MATERIALS ARE MANUFACTURED**

- People have discovered ways of changing natural materials into other useful materials.
- Heating or cooling can change some materials either temporarily or, in some cases, permanently.

- Heating can make some materials melt.
- Cooling can make some material solidify.
- Some materials can be changed by being combined through a chemical reaction, which then produces a new material.
- Manufactured materials are those that have been changed from raw materials into new materials.
- People make use of a wide variety of manufactured materials for numerous purposes.

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