

## ▶ CHECK YOUR UNDERSTANDING

1. Explain how a physical change differs from a chemical change. Present your explanation in a table.
2. Give three examples of reversible physical changes that were not mentioned in this section. Give one example of a non-reversible physical change that was not mentioned in this section.
3. What clues might you observe if a chemical change is occurring?
4. In an experiment, Ethan and Deepa tested different combinations of substances. They made the following conclusions. Are their conclusions valid? Explain your reasoning.
  - a) When we opened a can of cola, it fizzed. This showed that a chemical change had occurred.
  - b) When Ethan's Dad sawed through a piece of wood, smoke came up around the blade of the power saw. The sawdust was blackened around the edges of the blade. A chemical change had occurred, because the sawdust appeared different from the original wood.
  - c) Heat and light were given off by a light bulb. A chemical change took place in the light bulb.
5. When you mix sugar in water, the sugar crystals disappear. Explain why this is an example of a physical change rather than a chemical change.