

Date: \_\_\_\_\_

### Chapter 5, lesson C: Chemical Reactions ( 5.C.1 )

1. A chemical reaction takes place when substances are mixed to form a new substance. Which of these are chemical changes?

Tick (✓) the **three** correct answers.

- burning wood
- cooking an egg
- crushing a drink can
- freezing fruit juice
- iron rusting

2. We may observe some changes when a chemical reaction is taking place. **Baking a cake is a chemical reaction.**

What changes may be observed when the chemical reaction is taking place?

Write down **one** change.

A new substance is formed and we may observe a change in colour.

3. Kai observes an iron nail. The iron nail has a **brown** substance on it. His mother says that a chemical reaction has happened to the iron nail. Explain how so.

The brown substance (rust) is new substance. It is formed when iron reacts with water and air. So a chemical reaction has happened.

4. There are chemical reactions and physical processes.



A



B



C



D



E



F

a. Which two letters show chemical reactions?

B

\_\_\_\_\_

F

\_\_\_\_\_

b. Which two letters show physical processes?

A

\_\_\_\_\_

E

\_\_\_\_\_

c. Draw an example of a **chemical reaction** .

