Name _____ Date _____ Score _____

Free sample

Atoms and Chemical Reactions

Six questions to try. Then check your answers on page 2.

Remember

Atoms have **protons**, **neutrons** and **electrons**. A small number in a formula counts the atom before it. In a reaction, **mass before = mass after**.

1 Which particle has a negative charge?

2 Element, compound or mixture: **water, H_2O**?

3 How many atoms are in **CO_2**?

4 Is **iron rusting** a physical or chemical change?

5 Give **two** signs of a chemical reaction.

6 20 g of reactants react in a sealed flask. What is the mass of the products?

Name _____ Date _____ Score _____

Answers

1. **the electron** — Protons are positive; neutrons have no charge.

2. **a compound** — Hydrogen and oxygen are chemically joined.

3. **3** — 1 C + 2 O.

4. **chemical** — A new substance, iron oxide, forms.

5. **any two: gas, colour change, temperature change, light, a precipitate** — The key test is a new substance.

6. **20 g** — Mass is conserved in a closed system.

In the full pack

17 questions in 5 parts (1 · atoms, 2 · elements, compounds and mixtures, 3 · counting atoms, 4 · chemical reactions, 5 · conservation of mass), a notes page, a full answer key, a 14-slide teaching deck with a sealed-bag practical, and online practice.

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