

4 Reactions, equations, and stoichiometry – Part 1 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 any three of: colour change, gas bubbles, a precipitate (solid) forming, a temperature change.

2.2 (a) physical (still water); (b) chemical (new substances form).

2.3 $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$.

2.4 the ratio $\text{Mg} : \text{MgO}$ is $2 : 2 = 1 : 1$, so 3.0 mol of MgO .

2.5 0.20 mol Mg gives 0.20 mol MgO ; mass = $0.20 \times 40 = 8.0$ g.