

Workbook Answer key

10.1 The reactions of metals with oxygen

- 1 oxygen, oxides, iron oxide, element, compound
- 2a lithium, potassium, sodium
 - b gold, platinum
 - c potassium, sodium, lithium, platinum/gold
- 3a oxygen
 - b iron oxide
 - c potassium
 - d lead oxide
 - e oxygen
 - f zinc

10.2 The reactions of metals with water

- b
 - i It was easy for Mr Fissoo to cut the potassium.
 - ii The potassium floated.
 - iii The potassium moved around quickly.
 - v The Universal Indicator solution changed colour from green to blue.
- 2a T
 - b F – Calcium reacts with water to make calcium hydroxide and hydrogen gas.
 - c T
 - d F – sodium + water \rightarrow sodium hydroxide + hydrogen

Textbook Answer key

10.1 The reactions of metals with oxygen

- 1 Bright white flame and Change in color
- 2 iron oxide
- 3 $\text{zinc} + \text{oxygen} \rightarrow \text{zinc oxide}$
- 4 magnesium, iron, copper

10.2 The reactions of metals with water

- 1 potassium, sodium, lithium, calcium
- 2 Products: potassium hydroxide and hydrogen
 $\text{Potassium} + \text{water} \rightarrow \text{potassium hydroxide} + \text{hydrogen}$
- 3 Gold does not react with cold water.