Balancing Chemical Equations

1.

|  |  |
| --- | --- |
| Word equation | iron + sulphur → iron(II) sulphide |
| Skeleton equation |  |
| Balanced equation |  |

2.

|  |  |
| --- | --- |
| Word equation | calcium + oxygen → calcium oxide |
| Skeleton equation |  |
| Balanced equation |  |

3.

|  |  |
| --- | --- |
| Word equation | calcium oxide + carbon dioxide → calcium carbonate |
| Skeleton equation |  |
| Balanced equation |  |

4.

|  |  |
| --- | --- |
| Word equation | copper(II) oxide → copper + oxygen |
| Skeleton equation |  |
| Balanced equation |  |

5.

|  |  |
| --- | --- |
| Word equation | barium chloride + potassium sulphate → barium sulphate + potassium chloride |
| Skeleton equation |  |
| Balanced equation |  |

6.

|  |  |
| --- | --- |
| Word equation | potassium + water → potassium hydroxide + hydrogen |
| Skeleton equation |  |
| Balanced equation |  |

ANSWER KEY

BLM 2-18, Balancing Chemical Equations

 1. Skeleton equation: Fe + S → FeS

Balanced equation: Fe + S → FeS

 2. Skeleton equation: Ca + O2 → CaO2

Balanced equation: 2Ca + O2 → 2CaO

 3. Skeleton equation: CaO + CO2 → CaCO3

Balanced equation: CaO + CO2 → CaCO3

 4. Skeleton equation: CuO2 → Cu + O2

Balanced equation: 2CuO → 2Cu + O2

 5. Skeleton equation: BaCl2 + K2SO4 → BaSO4 + KCl

Balanced equation: BaCl2 + K2SO4 → BaSO4 + 2KCl

 6. Skeleton equation: K + H2O → KOH + H2

Balanced equation: 4K + 4H2O → 4KOH + 2H2