

Chemistry 11

Translation and Balancing with Phases

Directions: Answer in the space provided. Make sure you have the right chemical formula. You MUST include the phase AND balance. Enjoy ☺

1. Solid calcium oxide reacts with liquid water to produce solid calcium hydroxide
2. Powdered aluminum reacts with solid iron (III) oxide to yield solid aluminum oxide and solid iron
3. Solid silver sulphate plus powdered copper produces aqueous copper (II) sulphate and solid silver
4. Aqueous sodium hydroxide reacts with gaseous carbon dioxide to produce aqueous sodium carbonate and liquid water
5. Aqueous barium chloride plus aqueous sodium sulphate produces aqueous sodium chloride and solid barium sulphate
6. Aqueous lead (II) nitrate plus aqueous sulphuric acid reacts to produce solid lead (II) sulphate and aqueous nitric acid

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7. Aqueous zinc chloride reacts with aqueous ammonium sulphide to produce solid zinc sulphide and aqueous ammonium chloride

8. Solid magnesium plus aqueous nitric acid produces aqueous magnesium nitrate and hydrogen gas

9. Solid iron (III) oxide plus carbon monoxide gas react to produce powdered iron and carbon dioxide gas.

10. Aqueous lead (II) acetate reacts with aqueous hydrogen sulphide to produce solid lead (II) sulphide and aqueous acetic acid

11. Solid calcium phosphate plus aqueous sulphuric acid produces solid calcium sulphate and aqueous phosphoric acid

12. Aqueous iron (III) chloride reacts with solid sodium carbonate to yield aqueous sodium chloride and solid iron (III) carbonate

13. Solid calcium oxide plus gaseous diphosphorus pentoxide reacts to produce solid calcium phosphate

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14. Solid calcium carbonate plus aqueous hydrochloric acid produce aqueous calcium chloride, liquid water and gaseous carbon dioxide

15. Aqueous calcium hydroxide reacts with aqueous phosphoric acid to produce powdered calcium phosphate and liquid water

16. Crystals of aluminum hydroxide react with aqueous sulphuric acid to produce aqueous aluminum sulphate and liquid water

17. Aqueous sodium carbonate reacts with aqueous calcium hydroxide to yield aqueous sodium hydroxide and solid calcium carbonate

18. Gaseous carbon dioxide reacts with liquid water to produce aqueous carbonic acid

19. Solid iron plus aqueous copper (I) nitrate produces aqueous iron (II) nitrate and solid copper

20. Aqueous calcium chloride reacts with aqueous nitric acid to yield aqueous calcium nitrate and aqueous hydrochloric acid