

# Predicting Reactions

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## LEWIS ACIDS PRACTICE

- a) phosphorus(V) oxytrichloride is added to water.
- b) solid sodium oxide is added to water.
- c) the gases boron trifluoride and ammonia are mixed.
- d) powdered magnesium oxide is added to a container of carbon dioxide gas.
- e) solid ammonium carbonate is heated.
- f) solid calcium oxide is heated in the presence of sulfur trioxide gas.

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## Practice Group 2

- a) sulfur trioxide gas is added to excess water.
- b) powdered strontium oxide is added to distilled water.
- c) samples of boron trichloride gas and ammonia gas are mixed.
- d) powdered magnesium carbonate is heated strongly.
- e) carbon dioxide gas is bubbled through water contain a suspension of calcium carbonate.
- f) phosphine (phosphorus trihydride) gas is bubbled into liquid boron trichloride.

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### Practice Group 3

- a) carbon dioxide gas is bubbled through a concentrated solution of potassium hydroxide.
- b) solid barium oxide is added to distilled water.
- c) solid calcium carbonate is strongly heated.
- d) drops of liquid dinitrogen trioxide are added to distilled water.
- e) sulfur dioxide gas is bubbled into distilled water.
- f) solid dinitrogen pentoxide is added to water.
- g) solid calcium sulfite is heated in a vacuum.

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