

Name:

Class:



Complete the equation below for the reaction between iron and hydrochloric acid.



What two conditions are needed for rusting to occur?

1. **Oxygen.**

2. **Water.**

What method of separation can be used to separate two liquids with different boiling points?

Distillation or fractional distillation

What is an ionic compound?

A compound that contains a metal atom bonded to a non-metal atom.

What is a covalent compound?

A compound that contains two or more non-metals bonded to each other.

A student measured the pH of different soils.

Tick one box in each row to show if each soil is acidic, neutral or alkaline.

Soil	pH of soil	acidic	neutral	alkaline
A	4.5	✓		
B	5.5	✓		
C	6.3	✓		
D	7.0		✓	
E	7.8			✓

Describe a test to show that a gas is ammonia.

Test: moist/damp red litmus paper.

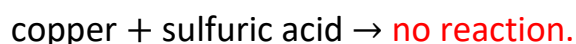
Result: if the gas is ammonia the damp red litmus paper will turn blue.

Describe a test to show that a gas is chlorine.

Test: moist/ damp blue litmus paper.

Result: if the gas is chlorine the damp blue litmus paper will turn red and is then bleached white.

Complete the following word equations.



What's the formula for the compound made from ammonium ions (NH_4^+) and sulfate ions (SO_4^{2-})?

