

Name:

Class:



An atom is: the simplest particle of an element that is neutral.

Give the formula of potassium hydroxide.

KOH

The reactions of chlorine and bromine with some sodium salts are given below.

Salt	Colour of salt solution	Colour after addition of chlorine solution, which is green-yellow	Colour after the addition of bromine solution which is orange
Sodium chloride	Colourless	Pale yellow green	Orange
Sodium bromide	Colourless	Orange	Orange
Sodium iodide	Colourless	Dark brown	Dark brown

Use these observations to put the elements bromine, chlorine and iodine in order of reactivity.

least reactive **Iodine**

↓

most reactive **Chlorine**

Bromine

Describe a test, and its positive result, to show that a substance is water.

Test reagent: anhydrous copper(II) sulfate.

Positive result: If water is present a colour change from white to blue is seen.

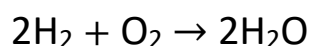
Write the formula for nitric acid.

HNO₃

Write the formula for sulfuric acid.

H₂SO₄

Write the word equation for the symbol equation below.



hydrogen + oxygen → water

Using a periodic table. What element is in Group 7 and Period 2?

Fluorine or F