

Question
Do all the metals react with hydrochloric acid?

Metals react with hydrochloric acid*
*Hydrochloric acid is a typical acid.

Metals react with other acids

Copper reacts with acid!

Answer
Magnesium reacts with hydrochloric acid and zinc reacts with hydrochloric acid.



REACTION BETWEEN METALS & ACIDS

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Magnesium reacts with hydrochloric acid and zinc reacts with hydrochloric acid and copper does not.



REACTION BETWEEN METALS & ACIDS

Metals react with hydrochloric acid*

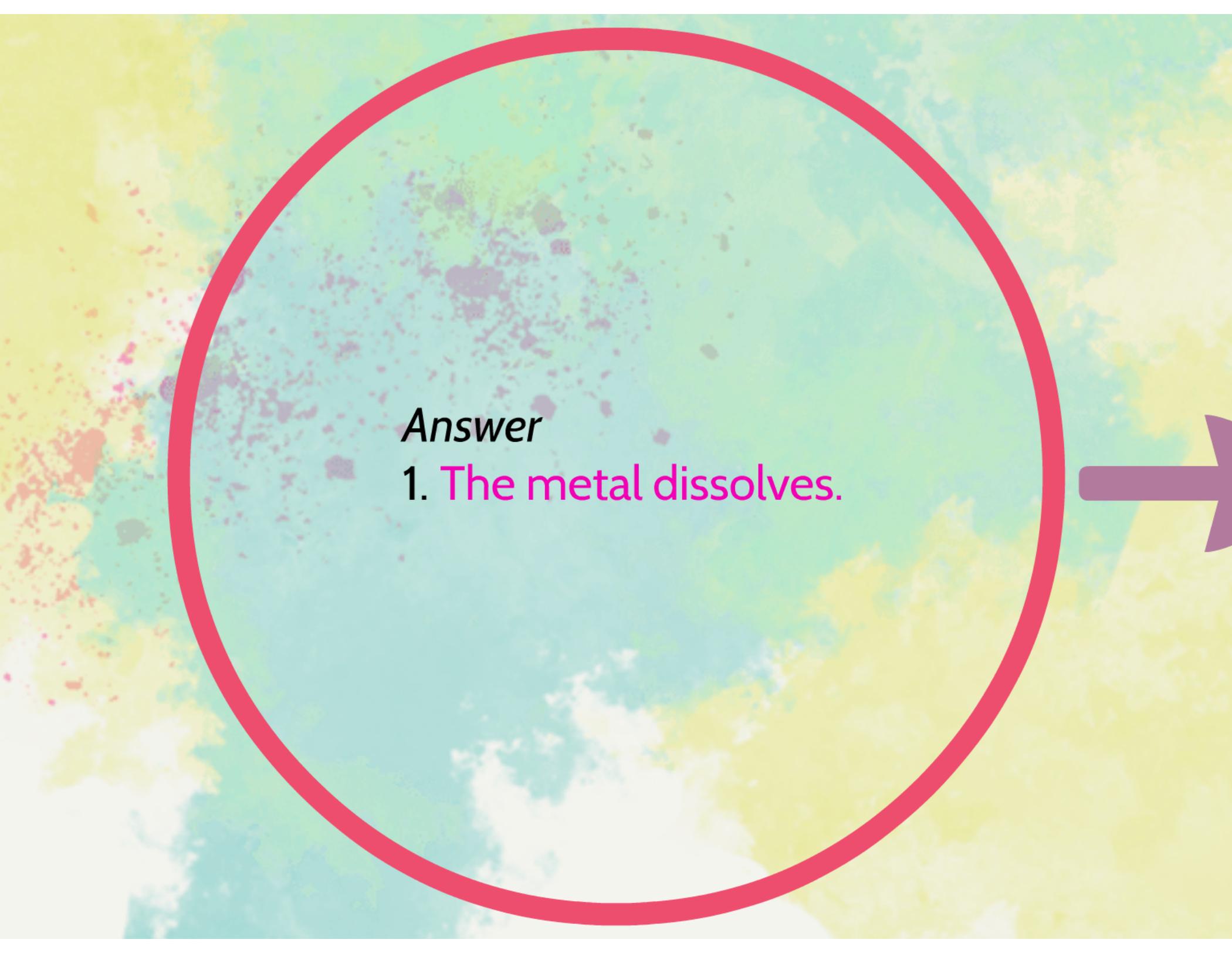
*Hydrochloric acid is a typical acid.



Question

What is observed when aluminium and zinc are allowed to react with hydrochloric acid separately ?





Answer

1. The metal dissolves.



2. A colourless gas evolves.

Note!

Never write "*Hydrogen* gas evolves." as an answer for the observation.

We must describe the colour of the gas, even it is colourless.

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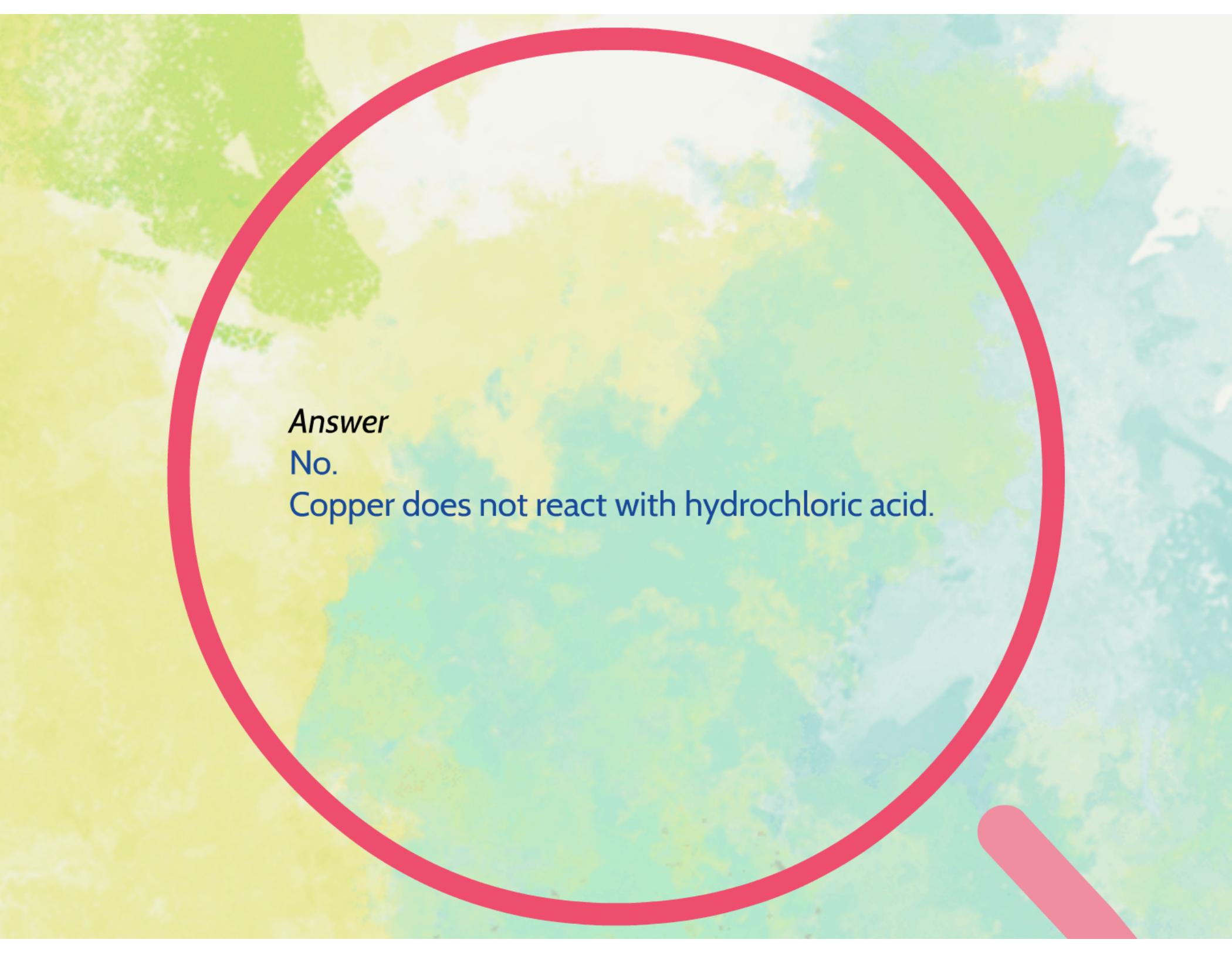
What happens when you react a metal with hydrochloric acid?

How do you know a reaction has taken place? What are the signs of a reaction?

Reactivity Series

1	Potassium
2	Sodium
3	Lithium
4	Calcium
5	Magnesium
6	Zinc
7	Iron
8	Copper
9	Lead
10	Hydrogen
11	Silver
12	Gold

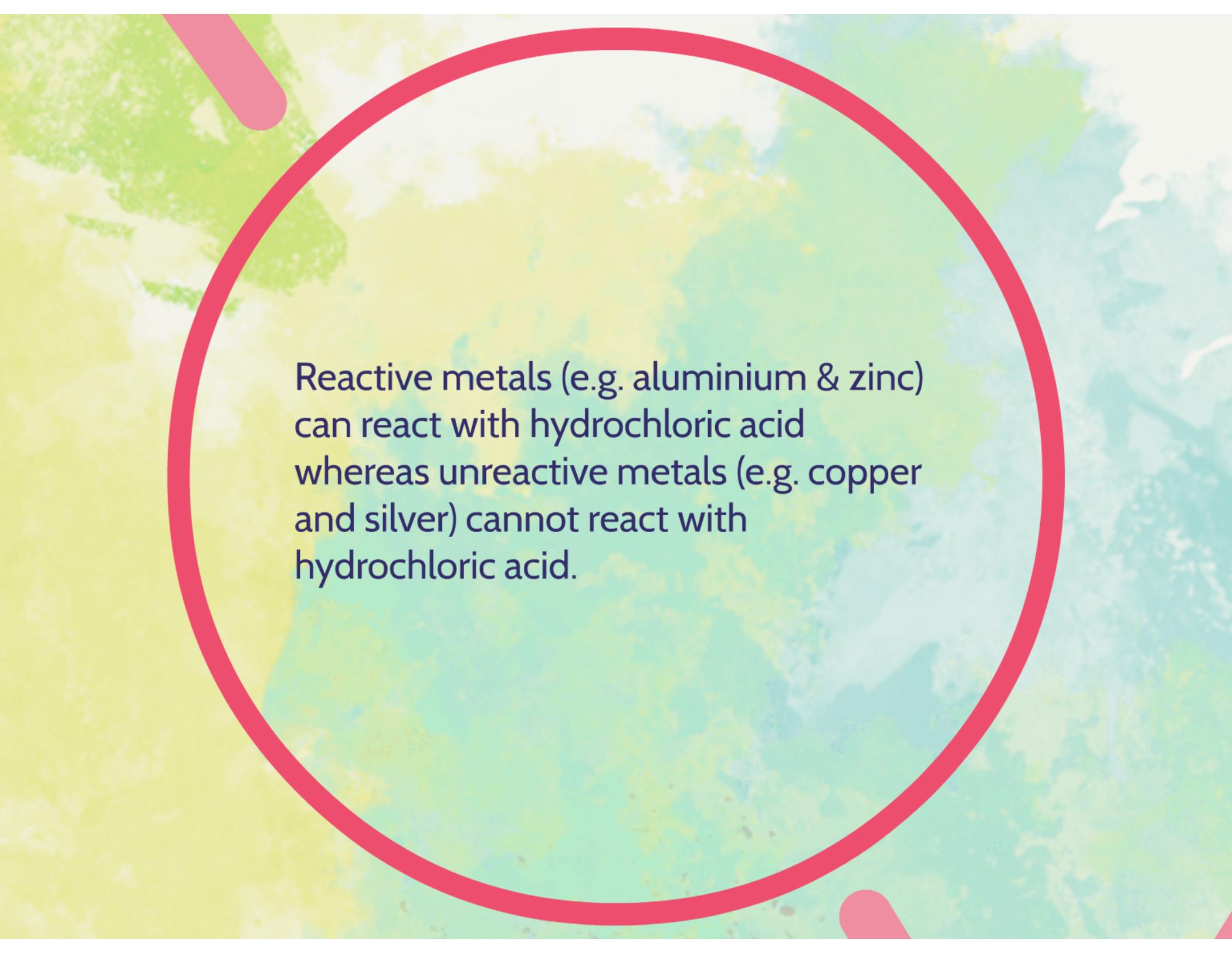




Answer

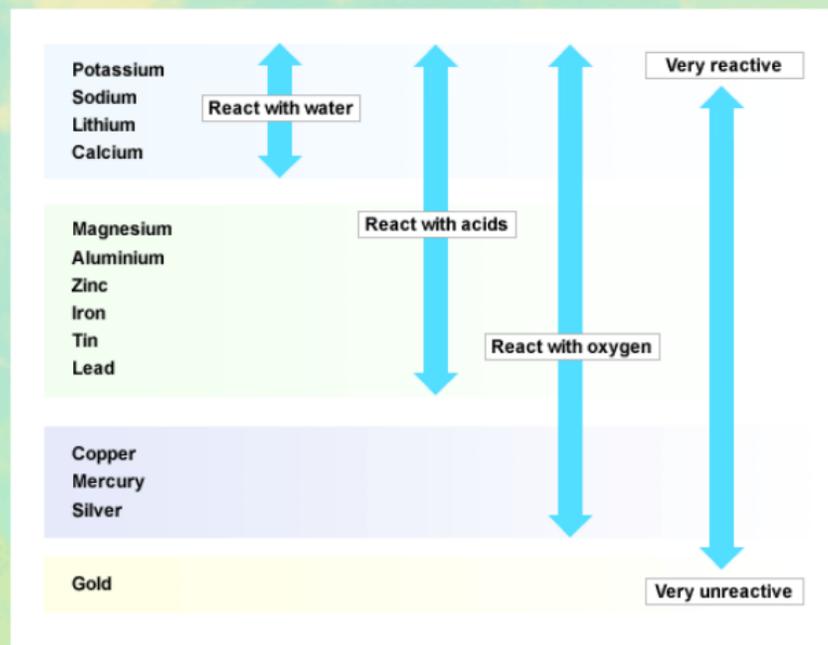
No.

Copper does not react with hydrochloric acid.

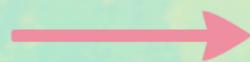


Reactive metals (e.g. aluminium & zinc) can react with hydrochloric acid whereas unreactive metals (e.g. copper and silver) cannot react with hydrochloric acid.

Metals below lead in the metal reactivity series have **NO** reaction with hydrochloric acid.



Metal + Hydrochloric acid



Metal chloride + Hydrogen

(for lead and more reactive metals)

Metals react with other acids



Reaction of metals and acids :

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(The gas is hydrogen.)
3. Metals less reactive than lead
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