

Reactivity Series – Metal Reactions Exam Style Questions

1. We can use the reactions of metals with water and dilute acid to put the metals in order of reactivity. Consider the reactions of 4 metals and put them in order of reactivity.

Metal	Reaction with water	Reaction with dilute acid
A	No reaction	No reaction
B	Reacts quickly	Reacts violently
C	No reaction	Reacts slowly
D	Reacts slowly	Reacts quickly

Most reactive _____

Least reactive _____

2. Suggest the identity of A and B

A =

B =

3. Write word and balanced symbol equations for the following reactions

a. Magnesium and hydrochloric acid

b. Zinc and sulfuric acid

c. Calcium and water

4. Write word and balanced symbol equations for the following reactions (if there is a reaction)

a. Aluminium and iron (III) oxide

b. Silver and magnesium nitrate

c. Sodium and zinc sulfate