

Name -

Nickname -

Class -

Date -









9Fb – REACTIVITY

1. What is the reactivity series?

2. a. Use the table to help identify the metals below.
Metal X can catch fire in air, reacts with cold water and reacts quickly with dilute acid. Metal X is likely to be



Metal Y reacts quickly with dilute acid and the oxygen in air but reacts very slowly with water. Metal Y is likely to be

Metal Z catches fire in air, is explosive with dilute acid and reacts very quickly with water. Metal Z is likely to be

Metal	Reaction with oxygen in air	Reaction with cold water	Reaction with dilute acid
potassium			
sodium		✓✓✓	
lithium		✓✓	✓✓✓
calcium		✓✓	✓✓✓
magnesium		✓	✓✓
aluminium	✓✓✓	•••	✓✓
zinc	✓✓	•••	✓✓
iron	✓✓	•••	✓
tin	✓	•••	✓
lead	✓	•••	✓
copper	✓	X	X
mercury	•••	X	X



Key

 explosive	 can catch fire	✓✓✓ reacts very quickly
✓✓ reacts quickly	✓ reacts	••• slow or partial reaction
X no reaction		

b. Complete the following equations.

potassium + water → _____ + _____

_____ + hydrochloric acid → calcium chloride + _____

_____ + _____ → magnesium oxide

lithium + nitric acid → _____ + _____

sodium + _____ → sodium hydroxide + _____

magnesium + sulfuric acid → _____ + _____