

# SCIENCE (Chemistry)

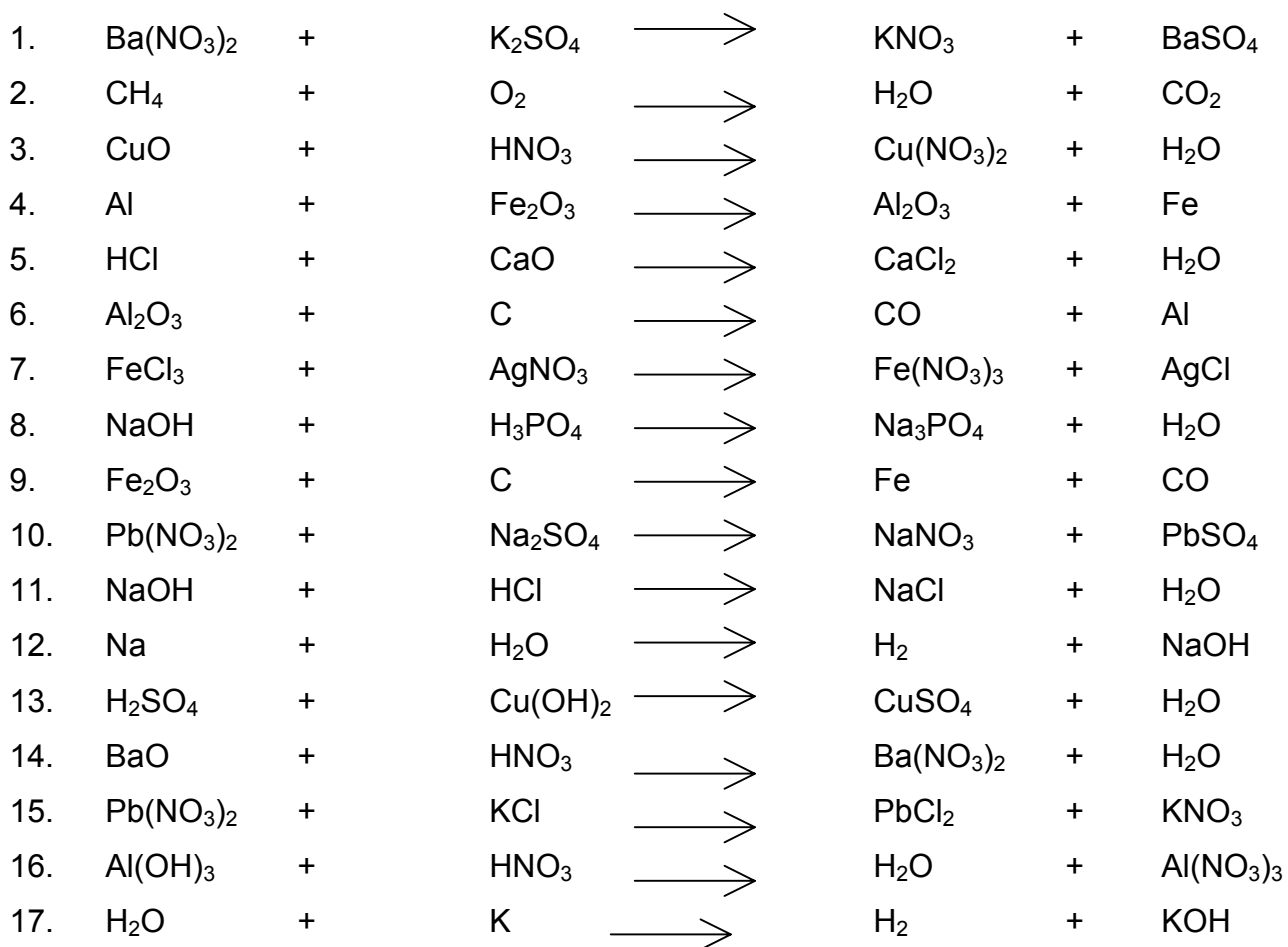
## Chemical Calculations Using Mole (IV) - Revision For Balancing Equation

Name: \_\_\_\_\_ ( ) Class: \_\_\_\_\_ Date: \_\_\_\_\_

### What Did Students Discover After Studying Science(Chem) ?



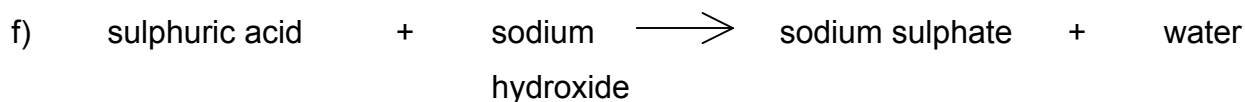
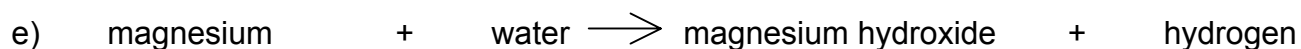
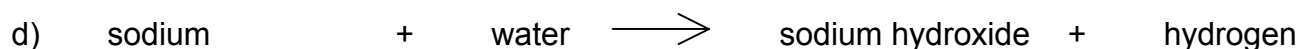
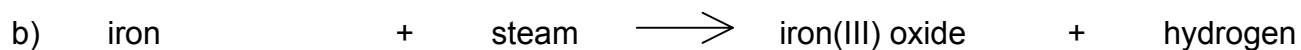
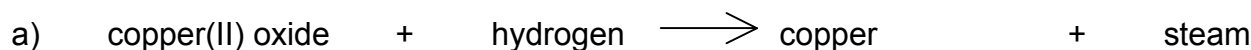
Balance the equations. Write in all the numbers, including '1'. For each equation, find the sequence of the number in the key list and write the corresponding letter next to the equation. Read down the letters to find the answer to the riddle.



#### KEY LIST

A. 1,1,1,1	B. 1,1,1,2	C. 1,1,2,1	E. 1,2,1,1
F. 1,2,1,2	G. 3,1,1,2	H. 1,2,2,1	I. 2,1,1,1
M. 2,1,1,2	N. 2,2,1,2	R. 3,1,1,3	S. 1,3,3,2
T. 1,3,1,3	U. 1,3,3,1	W. 2,1,2,1	Y. 1,3,2,3

2. Rewrite the following word equations into balanced chemical equations.



4. Write the balanced chemical equations for the following reactions.

a) Zinc reacts with dilute hydrochloric acid to form zinc chloride solution and hydrogen gas

b) Hydrogen gas burns with oxygen to form steam.

c) Chlorine gas reacts with hydrogen sulphide gas to form hydrogen chloride gas and sulphur

d) sodium metal burning in chlorine gas to form sodium chloride

e) calcium metal burning in oxygen to form calcium oxide

f) iron metal reacting with chlorine gas to form iron(III) chloride