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**Worksheet – 1**

**Name = ……………………… Date = …………………………**

1. What is meant by a chemical reaction ?

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1. a) AgNO3 (aq) + NaCl (aq) → AgCl (s) ↓ + NaNO3 (aq)

b) FeS + H2SO4 → FeSO4 + H2S ↑

What do these two different arrows ↑ and ↓ indicate in the above reaction.

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1. Write one example of Exothermic reaction and one Example of endothermic reaction.

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1. Identify the reactant and product in the following chemical reactions

a) Fe2O3 + 2 Al → Al2O3 + 2 Fe

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b) Fe (s) + CuSO4 (aq) → FeSO4 (aq) + Cu (s)

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c) FeSO4 (s) Fe2O3 (aq) + SO2 (g) + SO3 (g)

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1. Write one example of Evolution of gas.

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1. Respiration is exothermic reaction because

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1. Balance the following chemical equation :

a) Zn (s) + AgNO3 (aq) → Zn(NO3)2 + Ag (s)

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b) N2 (g) + H2 (g) → NH3 (g)

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1. What is a balanced chemical equation ? Why should chemical equation be balanced ?

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1. Write one example of precipitate formation.

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1. X KClO3 (s) Y KCl (aq) + Z O2 (g)

X = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ , Y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , Z = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Why photosynthesis is considered as an endothermic reaction.

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Remark Parent’s signature Teacher’s signature