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**MINISTRY OF EDUCATION, SCIENCE, VOCATIONAL TRAINING & EARLY CHILDHOOD EDUCATION**

**CHAMA DAY SECONDARY SCHOOL - MUCHINGA PROVINCE**

**GRADE 9 JETS JUNIOR CHEMISTRY**

**DATE GIVEN: Wednesday, 05 February 2014**

**TIME ALLOCATION: 30 Sec / Question Unless Specified In the Respective Question**

1. What are the main disadvantages of artificial fertilizers?

**They are expensive & most of them make the soil acidic if used for a long time.**

1. A solid does not easily change its shape. Why is it so?

**Because it has a fixed shape and volume.**

1. Give any substance that undergoes sublimation process.

**Iodine, Ammonium Chloride, Naphthalene, Dry Ice (Carbon Dioxide).**

1. What is the chemical name of burning?

**Combustion.**

1. What is the chemical name of slaked lime or lime water?

**Calcium Hydroxide.**

1. *One Attempt Only:* Is water a good or bad conductor of electricity.

**It is a bad conductor.**

1. Give the chemical symbol of water.

**H2O**

1. What is the approximate percentage of oxygen in air?

**20% (accept 21%).**

1. What is a fuel?

**Any substance that burns to produce heat.**

1. Hydrogen is a fuel, in which state is it?

**A Gas**

1. Give *any* use of oxygen.

**In welding and cutting, steel production, breathing or in hospitals to aid breathing**

1. Give the commercial name of any artificial fertiliser you know.

**Urea, D Compound, Triple Superphosphate, Sulphate of Ammonia, X-Compound or R-Mixture.**

1. Your young sister at home was playing in the kitchen and put sand in a bottle of salt. Describe how you can separate the mixture this mixture of sand and salt.

**Dissolve the mixture in water; salt will dissolve in water, filter the solution and sand will remain on the filter paper as residue, while salt solution passes through the filter paper as filtrate.**

1. Describe the reaction, which takes place when a piece of Sodium metal is put in a dish of water.

**The reaction is so vigorous and violent. Sodium darts/runs on water, producing fire, the fire is put off at the end with a pop sound proving hydrogen gas is given out.**

1. Where are artificial fertilisers produced in Zambia?

**Nitrogen Chemicals of Zambian (NCZ) In Kafue.**