****

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

**CHAMA BOARDING SECONDARY SCHOOL VERSUS CHAMA DAY SECONDARY SCHOOL**

**MUCHINGA PROVINCE**

**SENIOR PHYSICS JETS QUIZ**

**DATE GIVEN: Thursday, 20 March 2014**

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

1. There is 12.5g of Srontium (Sr) that has the half-life of 30 years. How many grams of Strontium are remained after 30 years?

**Answer: 6.25g**

1. Give the equivalent unit value of 7,000 Newton in kilo Newton (kN).

***Answer: 7 kilo Newton (7kN).***

1. What is meant by the term *net force?*

***Answer: The combined effect of the force when several forces act on an object.***

1. If the object is motionless, what must be the magnitude of the net force acting on it?

***Answer: Zero Newton (0 N).***

1. Of the three types of radiation which one has a higher penetrating power?

**Answer: Gamma (γ) ray**

1. What is the effect on the moving body when the frictional force is equal and opposite to the pushing force?

***Answer: The body will move with constant velocity.***

1. A force of 5N acts on a 3kg brick, moving it 8m horizontally from rest. Find the work done by the force.

**Answer: 40J**