Provincial Department of Education – Sabaragamuwa – Week School

Subject: Science

Grade -10

Week: October III

Translated by: Ms. Damayanthi Yapa
Kg/Dehi Rajasinghe Central

Work Energy and Power

Study the content from **page no 126 to 129** of **the Part II - Grade 10 Text Book** and answer the following questions

(1)   Define 1 J about work.

(2)   Complete the following expression on the work done by a force

   The work done by a force = …………………………………….x …………………………………….

(3)   Calculate the work done when an object is moved 2m by applying 80 N on it.

(4)   Calculate the work done when 50kg mas is lifted 4 m height.

(5)   Write the answers for **Exercise 18.1** in the **Text Book.**

(6)   Do the activities given below using the things that can be found in your home environment.

   A toy car, a plastic bottle, a rubber ball,

Activity	Observation
(i) Project the rubber ball with a certain velocity along a horizontal floor to the toy car	
(ii) Project the rubber ball more than first velocity to the toy car	
(iii) Project the both rubber ball and plastic ball with same velocity with two instances and make them collided	

(7)   Explain the reasons for the given observations.

(8)   What are the factors that affect the kinetic energy?