

Lesson 2 – Pushes and Pulls

1. Forces, energy and work.

i) Forces can be either a _____ or a _____

ii) What is Energy?

iii) The nine forms of energy are:

iv) Energy is the capacity to do _____ **Work = Force x Distance**

2. Syringes



i) Push the syringe in and comment on the size of the force required _____

ii) What is this force doing work against? _____

iii) Calculate how much work is done _____

iv) How much work is done when the end of the syringe is blocked? _____

v) What is the kinetic energy transformed into? _____

vi) Connect the syringes with the tube and explore!



vii) What changes when they are full of water? _____

viii) Squirt water into a bowl with the syringe. What happens when you change the size of the force?

3. Magnets

