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Q1 Short and Long questions

Q1

i) Force

ii) a push - to open a door, we push it.

iii) a pull - to move a grass roller on a lawn, it is pulled by a gardener.

iv) a stretch - stretching a rubber string.

v) a squeeze - change in shape of a sponge on squeezing.

Q2 Define force.

Ans. - The ~~strong~~ strength or energy as an attribute of physical ~~action~~ action or movement is called force.

Q8 Give an example of force as push and pull.

Ans- An Example of push as a force would be to push on a swing. The force ~~move~~ moves the swing in a particular direction and the harder that you push the further the swing will go. An example of pull as a force would be opening a door. An example of pressure as a force is when you push down on a pile of ~~grapes~~ grapes.

Q9 Explain force as stretch with the help of an example.

Ans- It exerts a counter force in the opposite direction. AS we stretch or compress an elastic material like a bungee cord, it resists the change in shape. It exerts a counter force in the opposite direction. This force is called force of stretching.

Q5 B) Short and long questions

Q3) Ans- Force is a physical cause that changes or may tend to change the state of rest or the state of motion of an object. The S.I unit of force is Newton.

Q4) Ans- When a force is applied on a stationary body, it ~~begins to~~ begins to move.

Q6) Describe the different effects of force with approximate examples.

Ans- 1) Can change the state of an object

Ex- pushing a heavy stone in order to move it.

2) May change the speed of ~~object~~ object if it is already moving

Ex - Catching a ball hit by a batsman

3) May change the direction of motion of an object.

Ex - A side wind can change the direction of a boat sailing on a sea.