



BGS Vijnatham School

Revision Worksheet -1

Answer Keys

Step- V

Science

Q1. Choose the correct answer

a. Example of contact force

Ans: iii. Frictional force

b. More force applied on an object makes it

Ans: ii. Move faster

c. Force used when we stretch a rubber band

Ans: iii. Elastic force

d. Example of force being applied

Ans: iii. Kicking a football

Q2. Fill in the blanks

a. A force applied using parts of our body is **muscular** force.

b. A force that opposes the motion is **friction**.

c. Rollers and wheels **reduce** the friction between the floor and the surface of an object.

d. The upward force exerted by water on any object is **buoyant force**.

e. Gravitational force pulls the object towards the **Earth**.

f. **Gravitational** force enables us to stand on the ground.

g. Attraction or repulsion between charged particles is called **electrostatic** force.

h. Animals push or pull using **muscular** force.

Q3. Answer in one word

a. Force that helps us walk without slipping – **Friction**

b. Force used to squeeze a sponge – **Muscular force**

c. Force that can act from a distance – **Non contact force (Examples can also be written)**

d. Force applied by a charged body – **Electrostatic force**

e. Cobalt, nickel and iron are examples of – **Magnetic materials**

f. Concept of floatation was given by – **Archimedes**

Q4. Give Reasons

a. **It is easier to go downhill than climbing up**

Because gravity helps us move downhill, but while climbing up we move against gravitational force.

b. A person weighs less on the Moon than on Earth

The gravitational force on the Moon is one sixth of the Earth's Gravitational force.

Q5. Case-Based Questions

a. Type of force used to push the box – **Muscular force**

b. Force that made it difficult to move the box – **Frictional force**

c. Placing a cloth reduced friction, so the box moved easily.

d. Force that slows down the bicycle – **Frictional force**

e.

- **Advantage:** Helps us walk without slipping
- **Disadvantage:** Causes wear and tear of objects

Q5. Short Answer Questions

a. **Frictional force**

It is the force that opposes motion between two surfaces in contact.
One way to reduce it is by using **lubricants or wheels**.

b. **Two factors affecting gravitational force:**

- Mass of the objects
- Distance between the objects

c. **Archimedes' Principle**

According to it, the buoyant force is equal to the weight of the water displaced by an object

Q6. Long Answer Question

a. **Three effects of force:**

- A force can change the shape of an object
- A force can change the speed of an object
- A force can change the direction of motion