

WELCOME TO THE ONLINE CLASS

SESSION NO.: 2

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 11

CHAPTER NAME: FORCE AND ENERGY

SUB TOPIC: LONG Q & A

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE

To enable the learner to:

write the questions and answers



A. Tick the correct answer.

- We are able to stay on the ground because of
 - a. gravitational force
 - b. elastic force
 - c. buoyant force
 - d. frictional force
- 2. A screw jack used to lift a car is a
 - a. first class lever
 - b. pulley
 - c. second class lever
 - d. screw

- 3. The most readily available source of energy is
 - a. wind energy
 - b. solar energy
 - c. geothermal energy
 - d. water energy
- The upward push of water on a floating object is called
 - a. buoyant force
 - b. volume
 - c. density
 - d. pressure



B. Fill in the blanks.

1. Most simple machines make use	of force.
Ans: Muscular / applied	
2. There is no	force in space.
Ans:Gravitational	
3. Simple machines change the	of applied force
Ans:Direction	
4. A moving car possesses mechani	cal energy due to its
·	
Ans:Motion	
5. An inclined plane is a	which makes work easier.
Ans: plane / slope	



C. Change the underlined words to correct these statements.

1. A stretched rubber band regains its original position on being released because of gravitational force.

Ans: Elastic

2. Geothermal energy is a <u>non-renewable</u> source of energy.

Ans: Renewable

3. The pulley used for drawing water from a well is a movable pulley.

Ans:fixed

4. Simple machines make our work <u>complicated</u>.

Ans: easier

5. We are able to walk because of <u>elastic</u> force.

Ans: frictional/gravitational



E. Answer these questions.

1. What is a lever? On what basis are levers classified?

Ans: A lever is a rigid rod arranged in such a manner that it can move freely around a fixed point.

Levers can be classified on the basis of the position of the fulcrum, the load and the effort.

- When the fulcrum is in between the load and the effort, it is a first-class lever.
- When the load is in between the fulcrum and the effort, it is called a second-class lever.
- When the effort is in between the fulcrum and the load, it is a third-class lever.

E. Answer these questions.



2. What is an inclined plane? How is it useful for us?

Ans: An inclined plane is a slope which makes work easier.

It is useful to us in the following ways:

- Workers can easily load or unload on a truck using a plank of wood.
- In hospitals and some other buildings inclined planes called ramps are provided next to stairs which helps them in pushing up wheelchairs.

3. Does a screw join two pieces of wood better than a nail? How?

Ans: When we join things together with the screw they are held together through a longer distance and thus cannot be forced apart easily.

On the other hand, when we join things with the nail they are held together only for a short distance, that is through the length of the nail. That is why a screw is better than a nail.

E. Answer these questions.



4. What does the law of conservation of energy state?

Ans: The law of conservation of energy states that energy can neither be created nor destroyed. It can change from one form to another.

5. How is wind energy more environment friendly than heat energy?

Ans: Wind energy is plentiful and renewable, widely distributed, clean and non polluting. Therefore, it is considered to be more environment friendly than heat energy.



HOMEWORK

Learn the Q & A.



LEARNING OUTCOME

The learner will be able to:

write the questions and answers.



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