Force & Energy

Fill in the blanks: -

1. _____ is the weight lifted by a person.
2. A force in the opposite direction of a moving object can _____ the object.
3.
4. The groove of the pulley is used for holding _____.
5. The force due to which a deformed object can regain its original shape is called _____.
6. All big machines are combinations of _____.
7. Effort is the _____ used.
8. _____ is the ability to do work.
9. The force that tries to stop the movement is called _____.
10. A working wind turbine is an example of _____ energy.
11. Mechanical energy can be either _____ or _____.
12. Wheel with a rod attached to it is known as _____ arrangement.
13. _____ is the upward force that is applied by a fluid on an object immersed in it.
14. Using a plank of wood to unload a vehicle is an example of _____.
15. _____ force is applied when we push, pull or lift something.
16. The energy stored in the position of an object is called _____.
17. Wheel burrow is an example of _____
18. _____ works on the principle of first-class lever.
19. An object thrown up comes down because of the _____ force.
20. Buoyant force is also known as _____.

Define the following: -

Muscular force- _____

_____

Gravitational force- _____

_____

Frictional Force- _____

_____

Elastic Force- _____

_____

Mechanical Force- _____

_____

Buoyant Force- _____

_____

Fulcrum- _____

_____

Mechanical energy- _____

_____

Solar energy- _____

_____

Geothermal energy- _____

_____

Wind Energy- _____

_____

Hydro Power- _____

_____

Heat Energy- _____

_____

Light Energy- _____

_____

Sound energy- _____

_____

Electrical energy- _____

_____

Write short answers: -

What are the various uses of force?

_____

_____

_____

_____

How are pulleys helpful?

_____

_____

_____

Name the different types of forces?

_____

_____

_____

_____

_____

What are simple machines and how do they help us?

_____

_____

_____

_____

Name the types of pulleys and define them.

Draw simple diagrams to show three different types of levers with labelling.

Give 3 examples each of three different types of levers.

What are pulleys? Explain the functioning of a pulley.

Why is a screw better than a nail?

Name and define two different types of mechanical energies.

Why is geothermal a renewable energy source?

What are the laws of conservation of energy?

Give an example of a force that makes things move.

What are some examples of forces that can stop objects from moving?

Explain the difference between a push and a pull.

How does force affect the motion of an object?

Can you name three everyday situations where you apply force?

Describe how friction affects the motion of objects.

What are some ways to increase or decrease the force needed to move an object?

How does gravity affect objects on Earth?

Explain why it's important to consider safety when applying force to objects.

_____

_____

_____

Write true or false and correct the incorrect statement: -

Light is an energy transmitted through solid liquid and gas.

_____

The total energy of the object keeps changing.

_____

Hydroelectric power plants can be located in a desert area.

_____

Screw hacks are used for lifting heavy objects.

_____

When we hang our clothes outside to dry we use geothermal energy

_____

Name the pictures and also write which type of machine it is in the box provided: -