

INDIAN SCHOOL NIZWA - WORKSHEET



Science Chapter – 9 Force and Energy

Name: _____	Date: _____	Class: Sec: ____

I) Choose the correct answer.

1. What is a pulley?
 - a. A bar used to lift heavy objects.
 - b. A wheel with a groove for a rope.
 - c. Made of two inclined planes.
 - d. A lever with an arm and a fulcrum.
2. Which of the following simple machines helps make work easier?
 - a. Wedge
 - b. Lever
 - c. Screw
 - d. All of these
3. Which action is used in riding a bicycle?
 - a. Lifting
 - b. Picking
 - c. Pushing
 - d. Throwing
4. A person wants to skate using a skateboard. Which two objects should interact in order to move

the skater?

- a. Ground and the skateboard
- b. Ground and the foot of the person
- c. Skateboard and wheels of the skateboard
- d. Wheels of the skateboard and foot of the person

5. A force cannot change the:

- a. Speed of the object
- b. Mass/ weight of an object
- c. Shape of an object
- d. The direction of a moving object

6. During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is;

- a. Force of gravity
- b. Electrostatic force
- c. Force of friction
- d. Magnetic force

7. Which of these forces slows down or stops a moving object on its own?

- a. Mechanical force
- b. Frictional force
- c. Gravitational force
- d. Electrostatic force

8. A sewing machine needs to be oiled to reduce -----

- a. Energy

b. Elasticity

c. Gravity

d. Friction

9. In which activity a force is stopping the motion of an object?

a. Pushing a cart

b. Hitting a hammer

c. Kicking a football

d. Catching a cricket ball

10. Which of the following is a simple machine?

a. Car

b. Television

c. Lever

d. Refrigerator

11. Which simple machine helps you lift a flag on a flagpole?

a. Lever

b. Pulley

c. Screw

d. Wheel and axle

12. A knife is an example of which simple machine?

a. Wedge

b. Pulley

c. Screw

d. Wheel and axle

13. Which simple machine is used in a staircase?

a. Inclined plane

b. Wheel and axle

c. Lever

d. Wedge

14. Which of the following uses a wheel and axle?

- a. Crowbar
- b. Ramp
- c. Door knob
- d. Screw

15. What part of a lever does the bar move around?

- a. Load
- b. Fulcrum
- c. Effort
- d. Axle

II. Fill in the blanks.

16. Petroleum and coal are ----- source of energy.

17. ----- force enables us to walk on the ground without slipping.

18. ----- is a push or a pull applied on an object

19. Sprinkling of powder on the carrom board ----- friction.

20. Friction produces -----

21. The upward force acting on an object that immersed in water is called -----

22. Energy that can be renewed or replenished over a period of time is called -----

23. A ----- is a simple machine that is used to cut or split apart objects

24. The energy that we get from the heat of the Earth is called -----