



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



INDIAN SCHOOL NIZWA - WORKSHEET

- 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

II) Fill in the blanks.

10. Petroleum and coal are ----- source of energy.
11. ----- force enables us to walk on the ground without slipping.
12. ----- is a push or a pull applied on an object
13. Sprinkling of powder on the carrom board ----- friction.



INDIAN SCHOOL NIZWA - WORKSHEET

14. Friction produces -----

III) Write whether the following statements are "TRUE / FALSE". Rewrite the false statements correctly.

15. Ramp is an example of an inclined plane.

16. A wheel barrow is an example of first - class lever.

17. Energy that can be renewed or replenished over a period of time is called non-renewable energy.

IV) Answer the following.

18. Explain why sportsmen use shoes with spikes.

19. An inflated balloon was pressed against a wall after it has been rubbed with a piece of synthetic cloth. It was found that the balloon sticks to the wall. What force might be responsible for attraction between the balloon and the wall?

IV) Observe the pictures and identify the type of simple machine represented.







INDIAN SCHOOL NIZWA - WORKSHEET



V) Match the following.

20. Bottle opener
21. Bow and arrow
22. Hammer
23. Peeler

- (a) First class lever
- (b) Wedge
- (c) Third class lever
- (d) Second class lever