

Name:

Date:

Science 4th Quarter Pre/Post Test

1. _____ is the use of science in solving problems as in industry or engineering.
 - a. lever
 - b. pulley
 - c. technology
 - d. efficiency

2. A basic device that can change the amount or the direction of force, or both at once is a _____?
 - a. screw
 - b. simple machine
 - c. wedge
 - d. knife

3. This pushes things apart.
 - a. wedge
 - b. wheel and axle
 - c. fulcrum
 - d. work

4. Simple machines always -
 - a. doubles the lifting force
 - b. moves around a fixed point
 - c. moves an object in the same direction
 - d. changes the size or direction of a force

5. Magnetic poles that are alike
 - a. attract
 - b. repel
 - c. disperse
 - d. absorb

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6. A wheel and axle increases the -
- a. resulting force
 - b. fulcrum
 - c. effort force
 - d. friction
7. A force that keeps objects that are touching each other from sliding from each other easily.
- a. acceleration
 - b. friction
 - c. speed
 - d. gravity
8. Which of these materials would you use in an experiment to show the magnetic field of a magnet?
- a. grains of rice
 - b. tiny rocks
 - c. iron filings
 - d. sand
9. A doorknob is an example of which simple machine?
- a. a wheel and axle
 - b. a pulley
 - c. a lever
 - d. an inclined plane or ramp
10. Force that pulls all objects toward each other -
- a. friction
 - b. acceleration
 - c. magnetism
 - d. gravity

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11. An ___ is a flow of charges.

- a. electric current
- b. resistor
- c. charge
- d. electromagnet

12. Motion is stopped and started by -

- a. weight
- b. gravity
- c. motion
- d. forces

13. An electromagnet is ____.

- a. an electric circuit that has a magnet in it
- b. a very powerful magnet
- c. a temporary magnet made with electricity
- d. a wire coil that is magnetic

14. A wedge -

- a. reduces resulting force
- b. pushes things apart
- c. decreases total work
- d. pulls objects

15. Magnets attract each other at -

- a. opposite poles
- b. only the N poles
- c. only the S poles
- d. their middles