

Name: _____

Date: _____

Simple Machines

3rd Grade- Design Task Assessment

Directions: For each of the questions below, choose the BEST answer.

1) The **main** goal of using a simple machine is to make work _____.

- A. easier
- B. harder
- C. slower
- D. faster

2) An amount of weight that needs to be moved is called _____.

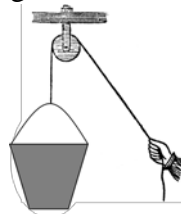
- A. force
- B. work
- C. effort
- D. load

3) What is a force that pulls objects down towards the ground?

- A. work
- B. gravity
- C. thrust
- D. friction

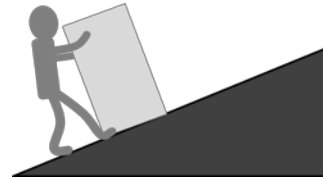
4) A push or pull on an object that causes it to change direction, move or stop is called _____.

- A. load
- B. work
- C. force
- D. energy



5) What makes it hard for a person to push a box up an incline plane?

- A. lift
- B. friction
- C. effort
- D. fulcrum



6) The fixed point on a lever is called the _____.

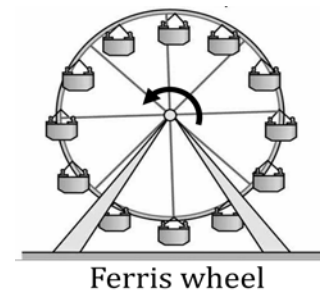
- A. load
- B. wedge
- C. axle
- D. fulcrum

7) Two or more simple machines working together is called a _____.

- A. advanced machine
- B. multiple machine
- C. compound machine
- D. magnitude machine

8) When you spin an axle, which direction will the wheel spin?

- A. the same direction
- B. the opposite direction
- C. it depends on the speed
- D. it depends on the force

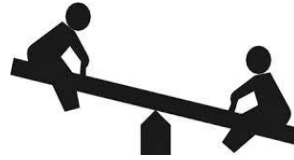


9) An inclined plane wrapped around a cylinder is called a _____.

- A. screw
- B. pulley
- C. wheel and axle
- D. wedge

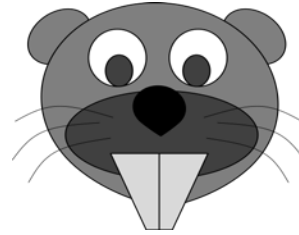
10) A seesaw on the playground is an example of what type of **simple** machine?

- A. pulley
- B. lever
- C. wedge
- D. inclined plane



11) When a beaver uses his teeth to cut wood, his **teeth** are what type of simple machine?

- A. lever
- B. wedge
- C. inclined plane
- D. pulley



12) A machine with few or no moving parts is called a _____.

- A. solution machine
- B. compound machine
- C. simple machine
- D. advanced machine

13) Scissors are a compound machine containing which two simple machines?

- A. wedge and incline plane
- B. screw and lever
- C. lever and wedge
- D. incline plane and screw



14) Mary wants a seesaw in her back yard. She has built a prototype of her seesaw design. What should she do next?

- A. Mary should test her prototype.
- B. Mary should tell her friends her idea.
- C. Mary should brainstorm other ideas.
- D. Mary should create a problem statement.

15) John has been hired by the Easy Moving Company to design a product that will allow their movers to easily carry heavy boxes up the stairs. Who is the client?

- A. John
- B. Easy Moving Company
- C. The movers
- D. The home owners