Name:\_\_Loz\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Simple Machines Quiz**

I pledge on my honor that I have neither given nor received unauthorized aid on this quiz.   
  
X\_\_\_\_\_Loz McKenzie\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This is an open book and resource quiz. Please make sure you are following the honor code and only using your resources provided. Please do not use anything other than what is on this list. Make sure you use your own words and ideas.

**Resources to use:**

Simple Machines Scavenger Hunt

Simple Machines Worksheet # 2

Introduction to Simple Machines

Any assignments on Google Classroom

Googling answers or information is not allowed on this quiz.

Multiple Choice Questions: (1 point each)

1. Which is NOT a type of simple machine?
   1. **Spring**
   2. Screw
   3. Pulley
   4. Wedge
2. What is the fixed point upon which a lever rotates?
   1. Fulton
   2. **Fulcrum**
   3. Furmen
   4. Falcon
3. Which of these is an example of a wedge?
   1. Skateboard
   2. Broom
   3. Stairs
   4. **Butter knife**
4. Which of these is not an example of an inclined plane?
   1. Ladder
   2. Stairs
   3. Wall
   4. **Driveway**
5. Which is an example of someone using a simple machine to do work?
   1. A boy runs across a football field
   2. A banker counts money
   3. **A mother pushes a stroller up a ramp into a building**
   4. A girl eats a sandwich
6. Sarah is using a screwdriver to insert a screw. The screwdriver is being used as…
   1. A pulley
   2. A screw
   3. A lever
   4. **A wheel and axle**
7. Thomas is using a screwdriver to pry open a paint can. The screwdriver is being used as…
   1. A pulley
   2. An inclined plane
   3. A screw
   4. **A lever**
8. What two parts might make a pulley?
   1. **Wheel and axle**
   2. Wheel and wire
   3. Wheel and screw
   4. Wheel and fulcrum

Think about which simple machine you would use for the following tasks. Be sure to explain how this machine will help you complete the task. Remember you can only use the 6 simple machines. You will have to use some more than once. (1 point each)

**The simple machines are: Wedge, Inclined Plane, Pulley, Wheel and Axle, Lever, and Screw.**

1. A piano needs to be moved up to a third floor apartment. An inclined plane could help for this job because a piano is heavy and lifting it up to the third floor apartment would be tiring so an inclined plane would make it much easier to push it up so those two would be a perfect match.
2. Your sister wants to fasten a towel bar in the bathroom. You suggest one of these. A pulley would be good for this because you could pull it to a different to a different direction to get what she wants.
3. A large boulder is in your yard. You need to move it over about three feet. An inclined plane could help for this job because it makes it easier to push something and a boulder is hard to push so an inclined plane would be a great choice.
4. You need to keep a door open while you bring in groceries from the car. A wedge would be perfect for this job because it pushes things apart so it could make the door stay open while the person brings in the groceries.
5. Dad needs to take your dog to the vet. Your dog is not able to jump up into the car. A pulley would be a perfect job because a pulley can lift something heavy off the ground and a dog can be heavy or light so it would be perfect for that situation.
6. Every morning the flag needs to be raised to the top of the flagpole. A pulley would be perfect for this job because a pulley lifts things off the ground and on the ground so it would be perfect.
7. You need to put the lid back onto a pickle jar. A screw would be great for this job because it can change a force that goes around, into a force that goes down.
8. The trees have lost their leaves and you have a lot of them to collect. A lever would be good for this proposition because a lever is basically a long stick that pushes or poles against a fulcrum.
9. Your new tree house is 6 feet off the ground and you need a way to get up to it. A pulley would be good to get up to the treehouse because you need to get the tree house and its too high up so pick you up and take you to the top.
10. You turn off the water to the sprinkler hose for your mom. A wheel and axle would be great for this job because a wheel and axle is a rod that spins on and off.
11. Your older brother chops some firewood because it’s going to be a cold night. A wedge would be great for this job because it is used to cut stuff down.
12. While visiting an old farm, you need to draw a bucket of water up from the well. A pulley would be excellent for this job because it lifts stuff up and it could fill water while going down and bring the bucket up while lifting it up.