

Wheel And Axle Systems

Part 1

Draw a wheel and axle system. Be sure to include 2 wheels (the same size) and an axle.

In order to make your system move, it must go down a ramp. Draw a ramp for your system.

Part 2: Answer these questions:

1.) What is the force called that moves your system down the ramp?

2.) What would happen if you rolled your system down a grassy ramp?

3.) What would happen if you rolled your system down an icy ramp?

4.) Therefore, if there is MORE friction (grassy ramp), there is LESS speed. If there is LESS friction (icy ramp), there is _____ speed.

5.) What would happen if the wheels on your system were different sizes?

Part 3: Challenge: Build a wheel and axle system out of items from home. Ideas for an axle: pencil, straw, spaghetti, or a marker. Ideas for wheels: marshmallows, candy, cereal, or Legos. Test your system and be creative!