Name: _____

Wheels & Levers

Date: _____

What Role Do Wheel and Axle Systems Have in Moving Vehicles and Devices?

Discover: Sorting Simple Machine Systems

Questions

How are wheel and axle, pulley, and gear systems different?

How are wheel and axle, pulley, and gear systems the same?

Resources

Access the website links from the online course.

- BrainPop Videos:
  - Wheel and Axle
  - Pulley
  - Gears
  - Inclined Plane

- Website: Simple Machines Game
- Google Drawing Doc

BrainPop Login Informatioin

- Username: 0099
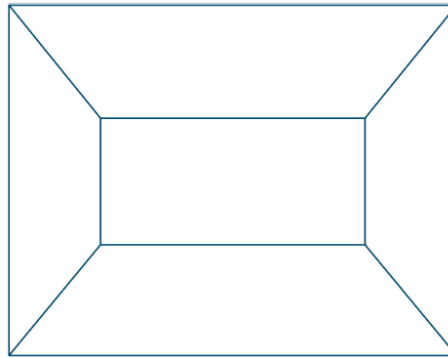- Password: students

Instructions

1 Use the following **Graphic Organizer** to compare wheel and axle, pulley, and gear systems. If you wish, you can build a different organizer using a program of your choice.

2 Watch the **BrainPop Video**: **Wheel and Axle**. See **BrainPop** login information on previous page. Watch and listen carefully to learn how wheel and axles work. Add what is unique about the wheel and axle to the **Graphic Organizer**.

3 Watch the **BrainPop Video**: **Pulley**. See **BrainPop** login information on previous page. Watch and listen carefully to learn how pulleys work. Add what is unique about the pulley to the **Graphic Organizer**.

4 Watch the **BrainPop Video**: **Gears**. See **BrainPop** login information on previous page. Watch and listen carefully to learn how gears work. Add what is unique about the gears to the **Graphic Organizer**.

5 Watch the **BrainPop Video**: **Inclined Plane**. See **BrainPop** login information on previous page. Watch and listen carefully to learn how inclined planes work. Add what is unique about the inclined plane to the **Graphic Organizer**.

6 Visit the website **Simple Machines Game**. Click "New Game", and then listen to and follow the instructions to play the game. Do your best to help Twitch complete his task. Add anything else you learned while visiting this website to the **Graphic Organizer**.

Challenge!

If you want an extra challenge, try expanding your **Graphic Organizer** to include another simple machine such as levers or ramps. If you decide to take this challenge, your **Graphic Organizer** might be shaped something like this:

Skill Builder

How to construct a graphic organizer in Google Docs.

If you need to use this Skill Builder, access it from the online course.

Wheel And Axle Systems

All Three Systems Have These Things in Common:

Pulley Systems

Gear Systems