Simple Machine Outputs (Part 1)

This activity is very similar to inputs and outputs! The input is data or information that a computer receives, while the output is data that a computer sends back! In this case, the input is each situation and the output is the solution or answer to the situation that you choose! Every input has a unique output which is very similar to how a code works.

Now that you know more about simple machines and using the word bank provided, identify which simple machine (output) would be best to use for each situation (input) by writing the correct simple machines in the blanks.

**WORD BANK: OUTPUTS**

- SCREW
- WHEEL AND AXLE
- GEARS
- PULLEY
- CLASS 1 LEVER
- INCLINED PLANE
- WEDGE
- CLASS 2 LEVER

**SITUATIONS: INPUT**

1. You and Robyn went rock climbing and now Robyn is stuck on the side of a mountain. What kind of simple machine should you use to help pull Robyn back up?

   **OUTPUT:**

2. You and Victoria want to build a seesaw in your backyard to play and experiment with balance. What simple machine would come into play?

   **OUTPUT:**
Simple Machine Outputs (Part 2)

3. Your friend Serenity is in a wheelchair and your front door has stairs. You really want Serenity to come over. What type of simple machine would you build so that Serenity can come inside?

OUTPUT: ________________________________

4. You and Brandi are going on a fishing trip, and you catch a really big fish. What type of simple machine(s) are in your fishing rod that will help you reel the fish in?

OUTPUT: ________________________________

5. You and your friend Zoe are going to the carnival. To get a ticket, you must identify what type of simple machine is used in the construction of a Ferris Wheel. What do you tell the ticket booth worker?

OUTPUT: ________________________________

6. You are in charge of designing a new play structure for your local park. Your friends tell you that they like riding a windy slide the best. You want your friends to like your design, so what type of simple machine should you use for the windy slide?

OUTPUT: ________________________________

7. Toni is going for a nice bike ride on a path when he encounters a large hill. What simple machine on Toni’s bike helps him increase the force when he pedals so he can make it up the hill?

OUTPUT: ________________________________