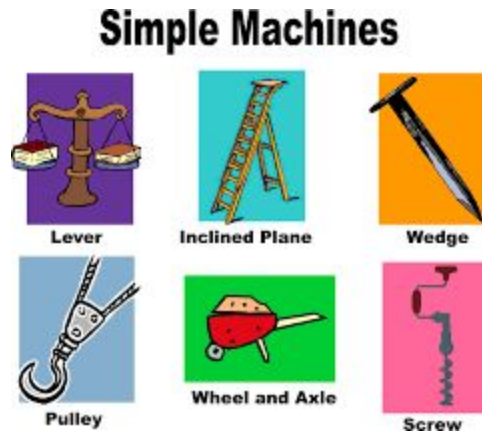


# Simple Machines

Today you will read information about simple machines in your textbook. You will also create a foldable to show this information all in one place. Use Mrs. Dangerfield's example to help you create your foldable. This foldable will be created just like our Newton's Laws foldable, with additional sheets of paper (4 pieces for each foldable).



**Step 1:** Read through sections 3.2, 3.3, and 3.4 in your textbook. You will use this information to complete your next task. You do not need to create notes or complete book work. Just read through the chapters and make sure you understand the vocabulary terms. These sections start on page 76 of your textbook.

**Step 2:** Use 4 pieces of plain copy paper to create a flap foldable (see Mrs. D's example) to explain the following simple machines:

1. Inclined Plane
2. Wedge
3. Screw
4. Wheel and axle
5. Pulley
6. Lever

\* You will also include a flap on the top titled "Mechanical Advantage". Include a definition here as well as the formula for calculating this. It may help to include definitions for input and output force as well.

\* On each flap of your foldable, include the following for each simple machine:

**On the front of the flap:**

Write the name of the simple machine

**Inside the flap:**

- List the definition
- Draw a labeled diagram
- Draw a picture of a real life example of that type of simple machine. For some machines you will have to include multiple examples because there are several types or classes for that type of simple machine (pulleys and levers).
- Write how you would calculate the mechanical advantage for that simple machine. You should be able to find this information in the textbook for all the simple machines except the pulley. For this, you should include the 3 different types of pulleys instead of the calculation. You should also include the different classes of levers with examples in the levers section of your foldable.

**These foldables should be turned in at the end of the block period today.** Make sure your name and class period are on your foldable so you receive credit for your work. You may add color to your foldable, but it is not required.