

Name-----

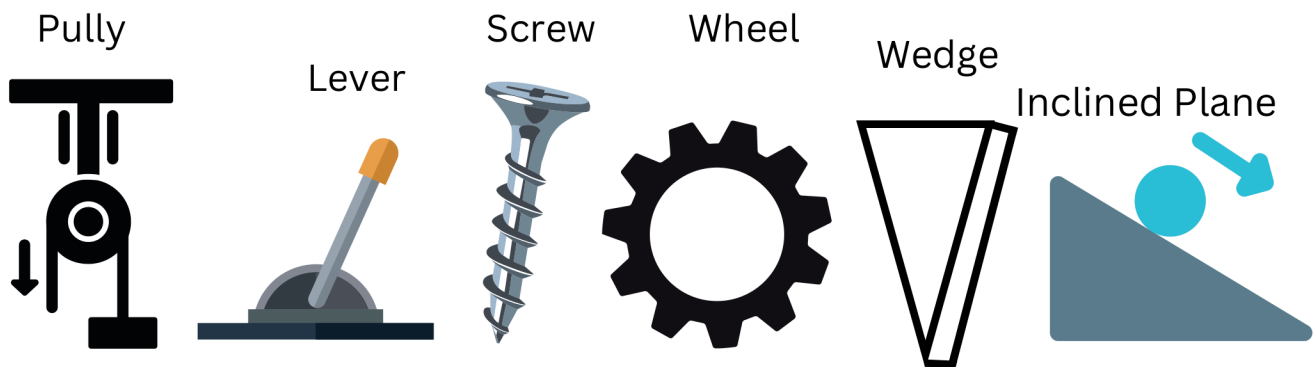
## Simple Machines: Making Work Easier

Simple machines are basic devices that help us do work with less effort. They are the building blocks of more complex machines and are used in our everyday lives. There are six types of simple machines: the lever, pulley, wheel and axle, inclined plane, wedge, and screw.

The lever is a stiff bar that pivots on a fulcrum. It helps us lift heavy objects by applying force at one end. Examples of levers include seesaws and scissors. A pulley is a wheel with a grooved rim and a rope or chain running through it. It allows us to lift heavy loads by pulling down on the rope. A flagpole with a pulley is a common example.

The wheel and axle consist of a wheel attached to a smaller axle. This simple machine is found in items like car wheels and doorknobs, making it easier to turn or rotate objects. An inclined plane is a flat surface that is raised on one end. Ramps are an example of inclined planes, making it easier to move heavy objects up and down.

A wedge is a triangular-shaped tool that helps split or lift objects apart. Examples include knives and doorstops. Lastly, the screw is an inclined plane wrapped around a cylindrical post. It helps hold things together, like screws in wood or screws in a jar lid.



**Questions:**

**1-What are simple machines and how do they help us?**

---

**2-Name six types of simple machines.**

---

**3-How does a lever work and what are some examples?**

---

**4-Explain how a pulley makes work easier and give an example.**

---

**5-What is the purpose of the wheel and axle, and where can we find it in everyday life?**

---

**6-Describe an inclined plane and its common application.**

---

**7-How does a wedge help in doing work? Give two examples.**

---

**8-What is the function of a screw and where can we find it in use?**

---