

Name:



## Screws

### Simple Machines

Screws are used to hold things together or to help lift heavy objects

**Screw:** a simple machine that is used to change circular motion into linear motion

- ▶ As a screw twists, it is drawn forward
- ▶ The **head** of a screw is twisted, spinning the **threads** and causing the screw to move forward
- ▶ The **threads** move into an object, pulling it together with the screw
- ▶ The **rotation** of the screw makes the shaft move **forward** further into the object

Draw a diagram of a **screw**: label the **threads** and **head**

Name 3 screws you might see in everyday life:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

- ▶ Screws are used when there is very little space to move objects around
- ▶ Using a **screw** allows you to move something forward or backward using **circular movement**
- ▶ Screws allow you to apply **force** while the simple machine remains in place
  - ▶ Even in tight spaces, large amounts of force can be generated!

Types of Screws

- ▶ **Threads:** the spiral part of a screw that wraps around the central cylinder
- ▶ **Wider** and **closer** threads give more strength to every twist!

Draw a diagrams of a screw with **large threads** and one with **small threads**

Build your own **screws**!

Draw diagrams of all the different types of screws you and your group can create with the screw kits:

- ▶ Label all the parts with the correct vocabulary!
- ▶ See how much weight each can lift!
- ▶ What functions could they serve?
