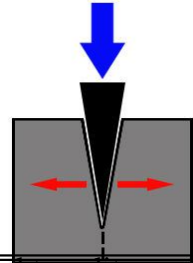


Name:

Wedges Simple Machines



Wedges are used to split or separate objects

Wedge: a simple machine that is used to reduce the amount of force needed to split objects

- ▶ By forcing an **edge** in between two things, it becomes easier to get them apart
- ▶ They work by using the **edge** where two **inclined planes** meet to get into an object
- ▶ This **splits** the object into two parts
- ▶ The **wedge** is placed in between objects that are to be separated
- ▶ The **force** behind the wedge pushes the objects apart

Draw a diagram of a **wedge**: label the **edge**

Name 3 wedges you might see in everyday life:

1. _____
2. _____
3. _____

- ▶ Wedges are used when something needs to be **separated**
- ▶ Applying effort on a **wedge** allows you to create force outwards to the sides
- ▶ Instead of trying to pull an object apart from the sides, a wedge will allow you to **split** it from the middle
- ▶ This makes it much easier to get two things apart!

Types of Pulleys

- ▶ **Thin** wedges are used to split objects that are very tightly held together
- ▶ **Wide** wedges are useful to hold things that are already separated apart

Draw a diagram of a **thin** and a **wide** wedge: label them

Build your own **wedges!**

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

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