

Simple Machines: Wedge

Name: _____

A wedge is made up of two inclined planes placed back to back, which forms a sharp edge. It is the active twin of the inclined plane. An inclined plane is stationary, but the wedge can do useful work by moving.

Wedges work when you push on the thickest part. Usually wedges have a handle. Wedges are used to hold something in place (for example doorstops), or to push something apart (for example axes).

Question

How does a wedge help to lift an object?

Hypothesis

I think: _____

Materials

- An adult supervision and a kitchen
- Your own pancake recipe
- Ingredients from your recipe
- Dishes that you usually need
- Whisk or a mixer
- Hot pan
- Spatula
- Wooden spoon
- Two big plates to place ready pancakes for cool off

Procedure

Step 1. Look at your spatula. Notice that it has a little wedge at the end.

Step 2. Prepare the kitchen, your dishes, your ingredients, and your whisk or a mixer. Make your pancakes; mix and get ready for frying them.

Step 3. Cook the pancakes as you usually do. Have your two plates, spatula and wooden spoon ready.

Step 4. Take 2 pancakes off your pan with the spatula and place it on the first plate. Follow up by using a wooden spoon. Try to take the next 2 pancakes off with a wooden spoon and place them on a second plate. Alternate the process until you will notice a difference between usage of spatula and wooden spoon.

Step 5. If you noticed the difference between usage of spatula and wooden spoon, record Results in Experiment Results Tables Below.

Step 6. Please eat all your pancakes, broken or not, enjoy your meal 😊

Experiment Results

	Compare pancakes on both plates. How do your pancake looks? (broken/ not broken)
Wooden spoon usage	
Spatula usage	

	Was it easier to lift your pancakes with spatula or wooden spoon? (yes/ no)
Wooden spoon	
Spatula	

Draw (or take a photo of) your Experiment, Comparing 2 Experiments

Picture/Photo 1	Picture/Photo 2

Conclusion

My hypothesis was:

I learned: