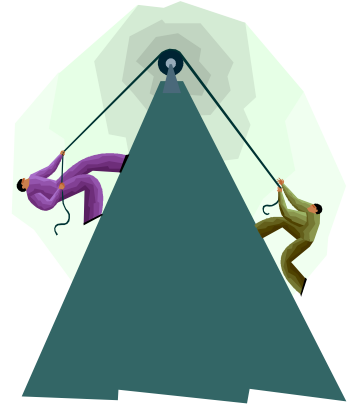


## Powerful Pulleys: The Power of Mechanical Advantage Activity – Post-Activity Assessment Worksheet – Answers



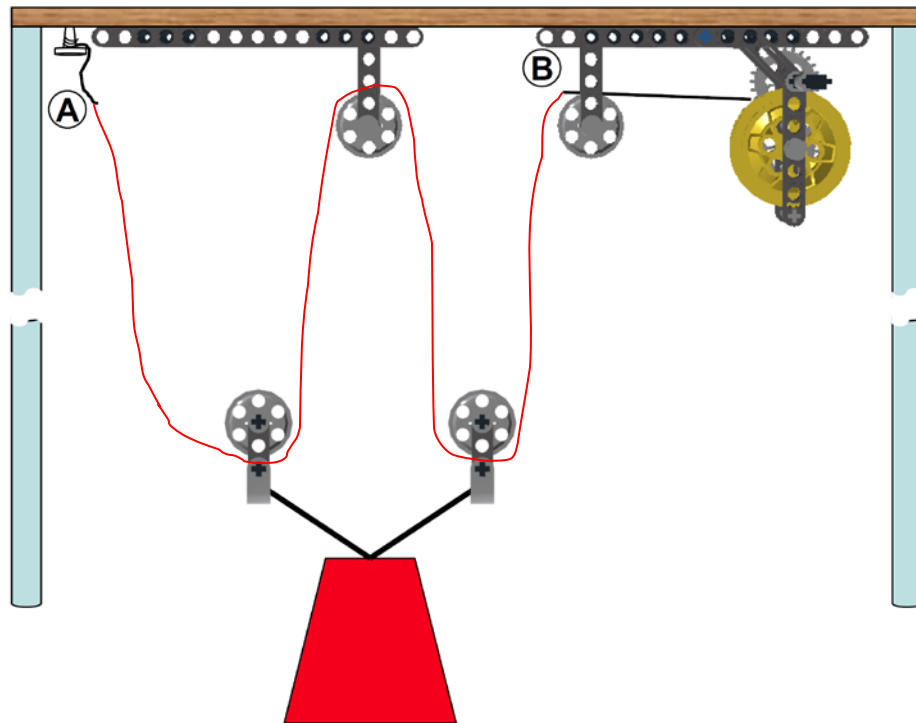
1. What is a **pulley**?

A pulley is a simple machine consisting of a wheel around which a rope/string is threaded, changing direction of the string.

2. What is the purpose of using a **pulley**?

A pulley is used to apply mechanical advantage to a mechanical setup.

3. Using the picture on the next/back page, connecting Line (A) with Line (B) by drawing the way you think the line should go through the pulleys.



4. Describe why the string should be configured that way.

The string should be configured that way because it distributes the load and puts less tension on the line.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

5. What are the two types of **pulleys**?

Fixed pulleys

movable pulleys

6. What is a simple machine?

A simple machine is a device that allows mechanical advantage. Mechanical advantage reduces the effort needed to exercise an amount of force.

7. What do you predict will occur when you use **pulleys** to lift something heavy?

The string/fishing line feels looser.

The person has an easier time lifting.

It takes longer to lift.