SCIENCE, TECHNOLOGY, ENGINEERING & MATH



SIMPLE MACHINES (6-8)

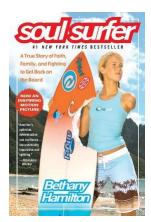
KEY CONCEPTS:

A machine is an apparatus that has several parts working together to perform a specific task.

Simple or basic machines help apply forces more efficiently. Examples are an inclined plane, a wedge and lever or a pulley.

Machines are even used to help the human body. A prosthetic is an artificial body part, like an arm or leg.





What would you do if you lost a limb? Bethany Hamilton shares her true story of triumph in her book Soul Surfer. As a promising 13-year surfer, she lost her arm in a shark attack. Since then, Bethany has traveled the world, started a family and continued to follow her dreams. Don't have the book? You can find above for free online access if you cannot get a copy from the local library.

ACTIVITY: SIMPLE MECHANICAL GRABBER

Materials: 2 six-inch rulers (or sticks, chopsticks, etc.), 1 sheet of paper, two rubber bands (optional – small items to pick up)

- 1. Turn the piece of paper sideways and fold it in half over and over until it is a lengthwise strip about 1½ inches wide.
- 2. Roll up the strip of paper and place it between the two sticks, about 2 inches from one end.
- 3. Wrap two rubber bands around the sticks, one on each side of the rolled-up paper.
- 4. Test your grabber by picking up different objects.

EXPLORE: Try making grabbers of different lengths or out of different materials. What works best? How heavy of an object can

you pick up? Set up a course of items to collect and race a friend or beat your own best time.

For step-by-step instructions, watch the video at: Simple Machine STEM Activity

This at-home educational activity is from the Literacy Coalition of Palm Beach County's literacy-based Stories & STEM program. Stories & STEM is made possible with support from Prime Time Palm Beach County, Inc., which receives

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Having fun? Send pictures or video links of you and your Stories & STEM projects to csharkey@literacypbc.org

