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Activities

Making Work Easier

Name: _____ Date: _____

You do the same amount of work with or without a machine. But machines do make work easier. In this Planet Diary activity, you'll see how simple machines help you get the job done.

Directions

- Go to Simple Machines. Click *What is a simple machine?* Answer Workspace questions 1 through 3.
- Click *Back* to return to the main page then click *It's all about mechanical advantage*. Click *Next* to advance through the text. Use the information to answer questions 4 through 6.
- Click *Continue* to return to the main page to explore each of the simple machines.
- Ready for the simple machines challenge? Click *Find the Simple Machine* at the bottom of the page. Follow the onscreen instructions and submit your answers. When you're done, the site will tell you how you did. Good luck!

Workspace

1. What's the formula for calculating work?

2. How do simple machines make work easier?

3. Name the simple machines included in the two "families."

4. Explain how the block and tackle provide mechanical advantage.

5. How was the mechanical advantage in the example calculated?

6. What is the efficiency of a machine?

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