

Simple Machines Online Activity

1. Go to my wiki: <http://zellers.wiki.cvsd.k12.pa.us/> (or by visiting the CVSD website and searching for Mr. Zellers's wiki).
2. Click on "Web Links"
3. Click on "Simple Machines Activity"
4. When the website opens click, "Launch" and begin to play the game.
- 5 Select the first activity, which is "Inclined Plane"

Try to all four ramps. When you find the best one answer the 3 questions below:

6. Which one worked the most efficiently"

A. Tower C. Sandwich

B. Pencil D. Wood

7. An inclined plane is a _____ surface with one _____ raised higher than the other.

8. What is the relationship between distance and force? _____

9. Select the Lever activity. Try different fulcrum (battery) locations until you get Twitch to hit his target then answer the question below

10. A lever is a bar used for _____ or moving weights, centered on a _____, or turning point.

11. Select the Wheel and Axle activity. Experiment with all 4 wheel types. Which one require the least effort? _____

12. Which one required so much effort that it was impossible? _____

13. A wheel and axle is a _____ simple machine with a _____ point in the center.

14. Select the Pulley activity and experiment with it.

15. Which pulley setup required the least amount of force?

A. No pulley (just the hook)

B. One pulley

C. 6 pulleys

D. A bunch of pulleys that not put together correctly

16. A pulley is a simple machine with one or more _____ wheels connected by a rope.

17. Walk around the work shop and find an example of each of the following simple machines and then be ready to explain your findings.

Lever-

Pulley-

Wheel and Axle-

Inclined Plane-

Wedge (really just 2 inclined planes back to back)-

Screw (really just an inclined plane wrapped around a cylinder)-