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Work, Energy, and the Simple Machines: Lever, Wheel and Axle, Pulley VIDEO QUIZ

At the end of the video presentation there will be a video quiz. You may use this worksheet to write your responses to the questions from the video quiz.

1.	The turning point of a lever is called the a. resistance b. effort c. fulcrum d. arm
2.	The load or object being moved on a lever is called the a. resistance b. effort c. fulcrum d. arm
3.	The mechanical advantage of a wheel and axle is determined by a. dividing the diameter of the wheel by the diameter of the axle b. dividing the axle radius by the wheel radius c. measuring the length of the effort arm d. dividing the resistance arm by the effort arm
4.	How do we calculate the mechanical advantage of a movable pulley? a. Divide the length of the effort arm by the length of the resistance arm. b. Divide the wheel radius by the axle radius. c. Measure the length of the effort arm. d. Count the number of supporting strands of rope.
5.	How do we calculate the mechanical advantage of a lever? a. Divide the length of the effort arm by the length of the resistance arm. b. Divide the wheel radius by the axle radius. c. Divide the length of the resistance arm by the length of the effort arm. d. Divide the weight of the load by the effort arm.
6.	What is energy?
7.	How is a fixed pulley different from a movable pulley?
8.	What is a block and tackle?
9.	Name the six simple machines.
10.	There are three kinds of levers. What makes them different from each other?

"Work, Energy and the Simple Machines"

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Work, Energy, and the Simple Machines: Lever, Wheel and Axle, Pulley VOCABULARY

Directions: Match the definitions in column B with the words in column A. Write the letter from column B next to the word in column A.

COLUMN A

COLUMN B

a. the ability to do work 1. resistance _____ b. a pulley that makes work easier 2. effort _____ 3. fulcrum _____ c. the weight of the object being moved d. more than one pulley working together 4. energy _____ 5. fixed pulley _____ e. the force (push or pull) used to do work 6. movable pulley _____ f. a pulley that changes direction of effort but provides no mechanical advantage 7. mechanical advantage _____ g. the turning point of a lever h. when a machine multiplies the effort 8. block and tackle _____ being used