

## **Review for Quiz #3 on Simple Machines and Calculating Work**

**I know I am ready for Quiz #3 when I can:**

- \_\_\_\_\_ Identify images of the 6 types of simple machines
- \_\_\_\_\_ Provide real life examples of each of the simple machines
- \_\_\_\_\_ Explain how simple machines provide an advantage to their users
- \_\_\_\_\_ Calculate the amount of work done on an object with your work shown.

**As with all quizzes, you have an opportunity to create study materials to earn +5 that will be averaged into your quiz grades for this marking period.**

- In order to get the full +5 your study materials should include each of the vocabulary words below, definitions of the words from quilt AND examples of the words.
- Additional information to include to help you make sure you are prepared could be images, sample problems/questions, mnemonic devices (like Cows Moo Softly, but for simple machines and work)

**Vocab to know: lever, fulcrum, wheel and axle, pulley, inclined plane, screw, wedge, force, work, distance**

NOTE: You will need to know the definitions of these words, but you will also be able to apply these words in order to answer questions and identify examples in a question. Just knowing the vocabulary is not enough-that is the beginning!

**The Quiz will have 4 parts:**

**Part 1: Vocabulary Matching** You will match the words to their definitions. You will find the definitions for the words below on quizlet. You should also have them on your recent HW assignments and our lab activities from class.

lever, fulcrum, wheel and axle, pulley, inclined plane, screw, wedge, force, work, distance

**Part 2: Applying Vocabulary** You will be asked to provide examples of two of the words above and a reason for why that example is a good example of that word in a full sentence.

**Part 3: Simple Machines (Multiple Choice)** You will be asked to answer a few multiple choice questions about simple machines. You will need to identify images of them and answer questions to demonstrate that you know how simple machines provide an advantage to their users.

**Part 4: Calculating Work** You will be asked to calculate the work done on an object in a given problem. You will be given full credit for a *correct answer* AND for *showing your work* AND for *using the correct units*.

***Sample questions will be provided as HW next week. To begin preparing you can work on your study materials.***

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### ***ACTIVITY***

**TASK:** In the space below, design a complex machine to help you do an every day task. (Like making your bed for example!) A COMPLEX machine is two or more simple machines put together.

1. Diagram this machine by drawing it and labeling the parts.
2. Explain how this machine will provide an advantage to you or its user.
3. JUSTIFY your choice of simple machines by explaining why you chose them

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