• What is work?

Work, Work, and More Work

Classify the following as positive work (force and motion in the same direction), negative work (force and motion in opposite directions), or no work (no motion, or motion at right angles to the force).

1. carrying a suitcase _____
2. typing _____
3. holding a bag of groceries _____
4. lifting an elevator _____
5. upward part of a jump on a trampoline _____
6. downward part of a jump on a trampoline _____

Designing Your Own Experiment

Use the following materials to create an experiment or experiments that will demonstrate positive work, negative work, and no work at all.

ball(s)	string	book(s)
tape	board	object of your choice

Answer the following questions, using complete sentences.

1. Describe your experiment(s). Include exactly what was done to demonstrate positive work, negative work, and no work.

   _____

   _____

2. In the space below sketch a picture of your experiment(s). Use arrows to indicate the direction of work.

Bonus Question

Calculate the amount of work done in your experiment(s).

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