

**Instructions Watch the video WORK & MECHANICAL ADVANTAGE from CRSci and fill in/ answer the questions below!**

- 1) Why did Matt not do ANY work?
- 2) Work involves the transfer of \_\_\_\_\_
- 3) Which road is parallel to I-85?
  - a. Feldwood Road
  - b. Flat Shoals Road
- 4) What two conditions must be met for work to be done on an object?
- 5) Why is carrying an object forward NOT doing work?



- 6) What is the Equation for WORK?

PRACTICE PROBLEM #1 (4:45)

F=

d=

$\theta$ =

W=

PRACTICE PROBLEM #2 (5:50)

F=

d=

$\theta$ =

W=

PRACTICE PROBLEM #3 (6:30)

F=

d=

$\theta$ =

W=

- 10) Why do pulleys NOT change the AMOUNT of work? (7:55-9:03)

- 11) What is the relationship between the # of pulleys and mechanical advantage? (direct or inverse)

- 12) List 3 Simple Machines that you use or interact with on a daily basis:

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