

UNIT 3: Chapter 14 Work, Power & Machines Test Review – Answer Key

SPS8. Students will determine relationships among force, mass, and motion.

e. Calculate amounts of work and mechanical advantage using simple machines.

Answer the following questions:

1. Define force.

Force is a push or a pull on an object.

2. What is the equation for force? (Identify each SI unit in the force equation)

Force (N) = mass (kg) x acceleration (m/s²)

3. Define work.

Work is the product of force and distance in the same direction.

4. What is the equation for work? (Identify each SI unit in the work equation)

Work (J) = Force (N) x Distance (m)

5. Define power.

Power is the rate at which work is done.

6. What is the equation for power? (Identify each SI unit in the power equation)

Power (W) = Work (J) / time (s)

7. What is mechanical advantage?

MA is the number of times that a machine increases the input force.

8. What are the six different simple machines?

SAWLIP: Screw, Wheel and Axle, Wedge, Lever, Inclined Plane, and Pulley

9. Give an example of each of the six simple machine:



- a. *Screw – bottle cap, bottom of a light bulb*
- b. *Wheel & Axle – steering wheel, wagon wheels*
- c. *Wedge – axe, zipper*
- d. *Lever – scissors, wheel barrow, broom*
- e. *Inclined plane - ramp*
- f. *Pulley – flag pole, window blinds*

10. What class of levers changes the direction of the force? *1st class levers*

11. What class of levers increases the distance of the force? *3rd class levers*

12. What class of levers increases the force? *2nd class levers*

13. What is the acronym used to memorize the three classes of levers? Define each letter and draw what each letter represents (please follow the example provided below).

F	O	I	L
fulcrum in the middle	output/resistance in middle	input/effort in the middle	Lever
			

Physical Science Work Power And Machine Answers

Yijin Wang



Physical Science Work Power And Machine Answers:

Basic Physical Science Eric Rice,1983 **Prentice Hall Physical Science Concepts in Action Program Planner**
National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Physical Science Leslie Erskine Spock,Walter Arthur Schneider,Howard Elmer Wahlert,1942 **Ebook: Physical Science**
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 addressing Giddens Call the stalemate of the social and psychological sciences determinism in science and postmodernism
Confusing Science Terms, Grades 5 - 8 Schyrlet Cameron,Carolyn Craig,2010-08-06 Connect students in grades 5 and up
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Dictionary of Science George Farrer Rodwell,1873 Technical Data Digest ,1947

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