

Work and Power

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octions: Give a	n example of how you could a	unnly a farce and not do	work Evolain why th	o annlied four
cerous. Olac nu	т схитіріє ўг полу уби сбити й	ippiy a force and not do	worк. Expiain wny th	е аррнеа тогсе
loing work.				

Directions: Write formulas to fill in the following chart.

	Write a Formula to Calculate	Data That Is Needed	Formula
3.	Work		
4.	Power ,		

Directions: Decide what each situation describes and write the term in the blank. You may use terms from the bank more than once or not at all.

distance	force	kinetic energy	power
energy	heat	potential energy	work
	5. what is done when a	baseball is lifted 0.7 m	
	6. the form of energy y	ou give a chair by pushing it a	cross the floor
	7. the form of energy a library shelf	book has that decreases as it t	cumbles from a
	8. what a dog did as he	pushed his food bowl across th	ne room with his nose
	9. measured in newtons	3	
	10. something that can n	ot be created nor destroyed	
	11. measured in watts		
	12. the form of energy a	baseball has that increases wh	en it is lifted 0.7 m
	13. a baseball is carried 7	m	
1	14. the rate at which wor	k is done	

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Directions: Describe the work in each situation as work or no work.







	2	3
ections: Name tw	o situations in which no work is don	e to an object.
•		
. If you push an your push cour	ts as work?	ject moves along the ground, how much of
. How is work m	easured?	
. What is power?		
. How is power 1	neasured?	
	es have power? Explain.	,

Directions: Use the formula, power = work/time, to calculate the power required in the following problem.

11. A weightlifter lifts a 1,250-N barbell 2 m in 3 s. How much power was used to lift the barbell?