WORK and POWER

Name			
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Part A: The Work Formula

W = Fd

Symbol	Quantity	Unit
W	Work	Joules (J)
F	Force	Newtons (N)
d	Distance	Meters (m)

When something DOES NOT MOVE, no work is done!
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A.1 I push a file cabinet with a force of 1000 N for a distance 2 m. What is the work I did?

A.I I push a the cabinet with a f	force of 1000 N for a distance 2 m. What is the work I did?
Looking For	Formula
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Answer as equation with unit:	
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A.2 I pick up a book with 30 N of weight. I lift to a height of 4 m. What is the work I did?

Looking For	Formula	
Already Know		
Answer as equation with unit:		

A.3 A weakling pushes a car with 2000 N of force for 15 minutes, but the car does not move. How much work does he do?

A.4 If something does not move, then no work is done. Why not?

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A.5 A person does 150 Joules o block?	f work by lifting a block 2 meters. W	hat is the weight of the
Looking For	Formula	
Already Know		•
Answer as equation with unit:		
A.6 A very angry man punches wall is unaffected. How much w	the wall 200 times, each time exerting work does he do?	g 200 Newtons of force. The
Looking For	Formula	
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Answer as equation with unit:	,	
A.7 A person pushes a block wi far did he push the block?	th a force of 200 Newtons and does 3	000 Joules of work. How
Looking For	Formula	
Already Know		
Answer as equation with unit:		
	ewton weight to a height of 2 m. How	much work did he do?
Looking For	Formula	
Already Know		•
Answer as equation with unit:		

A.9 A person pushes a rock with 500 Newtons of force, but does not work. How far did the rock move?