Name:			Date:
ř	v	Review Worksheet	
A/aul. b. a		Calculating Work	
work has a special meanil and the distance the obje Work = Force x Distance	ng in sciencect moves.	e. It is the product o The unit of work is th	of the force applied to an object ne Joule (J)
W= F x d Work = jou	les (J)	Force = newtons	(N) Distance = meters (m
. A book weighing 1.0 new	ton is lifted	d 2 meters. How muc	h work was done?
Formula		Substitution	Final Answer with Units
			3
	1		1
	-		
A fonce of 15 words			
. A force of 15 newtons is much work was done? Formula		ish a box along the fl bstitution	oor a distance of 3 meters. How Final Answer with Units
much work was done?			
much work was done?			
much work was done?			
much work was done?			
much work was done?			
Formula	Su	bstitution	
Formula It took 50 joules to push chair pushed?	Sul n a chair 5 r	bstitution meters across the flo	Final Answer with Units
Formula It took 50 joules to push	Sul n a chair 5 r	bstitution	Final Answer with Units
Formula It took 50 joules to push chair pushed?	Sul n a chair 5 r	bstitution meters across the flo	Final Answer with Units

4. A force of 100 newtons was necessary to lift a rock. A total of 150 joules of work was done. How far was the rock lifted?

Formula	Substitution	Final Answer with Units
	•	

5. It took 500 newtons of force to push a car 4 meters. How much work was done?

Substitution	Final Answer with Units
T.	
8 11	6
	0
	Substitution

6. A young man exerted a force of 9,000 N on a stalled car but was unable to move it. How much work was done?

Formula	Substitution	Final Answer with Units
1 Of Illana		
21		
	N	

Calculating Power

Power is the amount of	work done per unit	of time. T	The unit for powe	er, joules/second, is
the watt.				

Power = work/time

work = joules

time = seconds

1. What is the power of a kitchen blender if it can perform 3,750 joules of work in 15 seconds?

Formula		Substitution		Final Answer with Units	
	1	*			
			14		
				29	

2. How much work is done using a 500-watt microwave oven for 300 seconds.

Formula	Substitution	Final Answer with Units
	=	

3. How much work is done using a 60-watt light bulb for 3,600 seconds?

Formula	Substitution	Final Answer with Units
		8
	1	
	1	
	(4)	