

Answer completely in the space provided. You may do any work on the back.

1. Calculate the work needed to push a block a distance of 10 meters if 8 N of force is pushing the block.
2. How much power is necessary to do 60 joules of work in 6 seconds?
3. In order for work to be done the applied force and the distance the object moves must be in the \_\_\_\_\_ direction.
4. How much potential energy does a 3 kg rock have if it is 10 meters above the ground?
5. How much kinetic energy does an 8 kg cat have if it's running at a speed of 10 m/s?
6. \_\_\_\_\_ is energy due to an object's motion.
7. An object's \_\_\_\_\_ energy is stored energy due to its position. (2 words)
8. Caleb is riding his dirt bike at a speed of 10 mi/h. He has 4000 J of kinetic energy. What would his kinetic energy be if he were to speed up to 20 mi/h?
9. **TRUE** or **FALSE**: As a can of tomato sauce rolls up a ramp most all of its initial kinetic energy is transferred into potential energy.
10. A rock with 20 J of potential energy is dropped from 2 meters above the ground. About how much kinetic energy will it have when it has fallen 1 meter?
11. Gerald does 100 joules of work when lifting a 65 kg box up to a table. How much gravitational potential energy did he give the box?
12. Ciarra is on a swing at the playground. Describe what happens to her potential and kinetic energy as she makes one full swing forward.

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Circle the questions you answered incorrectly. Remove this strip and turn in to your teacher.

C7

Work	KE/PE	Conserve
1	4	9
2	5	10
3	6	11
	7	12
	8	

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