



## Work, Force and Energy Worksheet

### New Words

Force          Newton,  
                  energy

Magnetism          Work          joule  
                          kinetic

**Instructions: Read the questions carefully and choose the correct answer or fill in the blanks as directed.**

Part 1: Multiple Choice Choose the correct answer by circling the corresponding letter.

1. What is force? a) The ability to do work b) A push or a pull that can make things move c) Stored energy
2. The unit used to measure force is: a) Kilogram (kg) b) Meter (m) c) Newton (N)
3. Work is done when: a) An object is at rest b) A force is applied to an object and it moves a distance c) An object gains potential energy
4. The formula to calculate work is: a)  $\text{Work} = \text{Mass} \times \text{Distance}$  b)  $\text{Work} = \text{Force} \times \text{Distance}$  c)  $\text{Work} = \text{Speed} \times \text{Time}$
5. The unit of work is: a) Meter (m) b) Joule (J) c) Newton (N)

Part 2: Fill in the Blanks Fill in the blanks with the appropriate word(s).

6. Energy is the ability to \_\_\_\_\_ work.
7. When you push a swing and it starts moving, it gains \_\_\_\_\_ energy.
8. When you use force to move an object, you are doing \_\_\_\_\_.
9. The more force you apply to an object and the farther it moves, the more \_\_\_\_\_ you are doing.
10. The force that prevents objects from falling through a surface is called the \_\_\_\_\_ force.



### **Discuss or take home**

Part 5: Application Imagine you are riding a bicycle. Describe how force, work, and energy are involved in this activity.