

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Wind Power Activity – Power Math Worksheet

**P = power, Watts (W)**      **E = energy, Joules (J)**  
**t = time, seconds(s)**

1. What is the power produced by a wind generator that produces 500 J of electrical energy in 2 seconds? (Use  $P = E \div t$  or  $W = J \div s$ )
  
  
  
  
  
  
  
  
  
  
2. How much electrical energy is produced in 3 seconds by a wind generator that has a power out of 1000 W? (Use  $E = P \times t$  or  $J = W \times s$ )
  
  
  
  
  
  
  
  
  
  
3. A large wind generator has a power output of 5000 W. How long does it take to produce 500 J of electrical energy? (Use  $t = E \div P$  or  $s = J \div W$ )