**Name:** **Date:** **Class:**

# 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 $s = J \div W$)