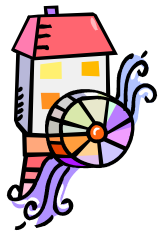


Name: \_\_\_\_\_ Date: \_\_\_\_\_

Team Name: \_\_\_\_\_



# Waterwheel Worksheet

**1. What happened to the waterwheel as you poured water on it?**

**2. In the table below, record your waterwheel data.**

Start Time	End Time	Elapsed Time (End Time - Start Time)	Number of Turns	Rate of Rotation (Number of turns ÷ elapsed time)

**3. What is the average rate of rotation?** (Hint: To find the average rate of rotation, add up the 4 rates of rotation above and divide by 4.)

**4. In the table below, record your waterwheel with weight data.**

Start Time	End Time	Elapsed Time (End Time - Start Time)	Number of Turns	Rate of Rotation (Number of turns ÷ elapsed time)

**5. What is the average rate of rotation?** (Hint: To find the average rate of rotation, add up the 4 rates of rotation above and divide by 4.)

**6. What happened to the rate of rotation when weight was added?**

**7. What would you expect to happen to the rate of rotation if more weight was used?**

**8. What changes could you make to your waterwheel to improve how well it works?**