

## TRIG "WHIPS"

Team member names: \_\_\_\_\_  
\_\_\_\_\_



(Each team of 5 will need an official timer and 4 whippers!)

**Hallway Activity: Use the tiles to get the following information (1 tile  $\approx$  1 foot)**

**What is each team member's distance from the center?**

Member 1 name: \_\_\_\_\_ Distance from center (ft): \_\_\_\_\_

Member 2 name: \_\_\_\_\_ Distance from center (ft): \_\_\_\_\_

Member 3 name: \_\_\_\_\_ Distance from center (ft): \_\_\_\_\_

Member 4 name: \_\_\_\_\_ Distance from center (ft): \_\_\_\_\_

**Outdoor Activity: Whip it Good!**

**How long did it take you to complete 3 revolutions, to the nearest tenth of a second?**

**Trial 1: \_\_\_\_\_ Trial 2: \_\_\_\_\_ Trial 3: \_\_\_\_\_ Average of 3 trials: \_\_\_\_\_**

**Classroom Activity: Do the following calculations.**

**For the 3 revolutions, how far did each team member travel (in feet), and what was their velocity (in miles per hour)?**

Member 1 name: \_\_\_\_\_ Total distance (ft): \_\_\_\_\_

Velocity (mph): \_\_\_\_\_

Angular Velocity (RPMs): \_\_\_\_\_

Member 2 name: \_\_\_\_\_ Total distance (ft): \_\_\_\_\_

Velocity (mph): \_\_\_\_\_

Angular Velocity (RPMs): \_\_\_\_\_

Member 3 name: \_\_\_\_\_ Total distance (ft): \_\_\_\_\_

Velocity (mph): \_\_\_\_\_

Angular Velocity (RPMs): \_\_\_\_\_

Member 4 name: \_\_\_\_\_ Total distance (ft): \_\_\_\_\_

Velocity (mph): \_\_\_\_\_

Angular Velocity (RPMs): \_\_\_\_\_