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**What Is a Light-Year? Student Worksheet**

1. Record the distance you walk, at a normal pace, in 10 sec.

**A**. Trial 1 \_\_\_\_\_\_\_\_\_\_\_\_\_m **B**. Trial 2 \_\_\_\_\_\_\_\_\_\_\_\_\_m **C**. Trial 3 \_\_\_\_\_\_\_\_\_\_\_\_\_m

2. Average the distances for your trials by adding the values from A, B, and C and dividing by the number of values, which in this case is 3.

**D**. Average distance \_\_\_\_\_\_\_\_\_\_\_\_\_\_m

3. Calculate the speed (distance over time) of your travel by dividing the time (10 sec) into the distance traveled (D).

**E**. Your speed \_\_\_\_\_\_\_\_\_\_\_\_\_\_m/sec

4. Calculate the distance traveled in 1 min if you were to keep your speed the same by multiplying your speed (E) by the number of seconds in a minute (60 sec/min).

**F**. Your distance traveled per minute \_\_\_\_\_\_\_\_\_\_\_\_\_m

5. Calculate the distance traveled in 1 hr if you were to keep your speed the same by multiplying the distance traveled per minute (F) by the number of minutes in an hour (60 min/hour).

**G**. Your distance traveled per hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m

6. Calculate the distance traveled in 1 day if you were to keep your speed the same by multiplying the distance traveled per hour (G) by the number of hours in a day (24 hr/day).

**H**. Your distance traveled per day \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m

7. Calculate the distance traveled in 1 yr if you were to keep your speed the same by multiplying the distance traveled per day (H) by the number of days in a year (365 days/yr).

**I**. Your distance traveled per year \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m ©Carolina Biological Supply Company Carolina Biological Supply Company grants teachers permission to photocopy or reproduce by other means this document in quantities sufficient for the students in his/her classroom. Also for purposes of classroom use only, teachers may make an overhead transparency of any or all pages in this document.