METRIC MANIA

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: FIRST, measure all the following in the units listed. THEN, attempt the challenge questions.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Length of the room (Meters - m)

* Challenge: Using math only, what is the length of the room in centimeters (cm)? \_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Temperature of room temperature water (degrees Celsius)

* Challenge: Is the temperature of the water closer to the freezing point or boiling point of water? \_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of mystery liquid (Milliliters - mL)

* Challenge: How many more mL would we need to get to 1 Liter?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time it takes for the balloon to hit the ground (starting at   
    lab desk height) (Seconds - s)

* Challenge: How could you increase the time it takes for the balloon to fall? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (Centimeters cubed - cm3) 🡪 L x W x H

* Challenge: How many mm are in 1 cm? \_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (Millimeters cubed - mm3) 🡪 L x W x H

* Challenge: How many mm are in 1 m? \_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mass of cube (Grams - g)

* Challenge: Is the mass of an object the same as its weight? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Downward Force of cylinder (Newtons - N)

* Challenge: Is the downward force of the cylinder related to its weight? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

METRIC MANIA

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: FIRST, measure all the following in the units listed. THEN, attempt the challenge questions.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Length of the room (Meters - m)

* Challenge: Using math only, what is the length of the room in centimeters (cm)? \_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Temperature of room temperature water (degrees Celsius)

* Challenge: Is the temperature of the water closer to the freezing point or boiling point of water? \_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of mystery liquid (Milliliters - mL)

* Challenge: How many more mL would we need to get to 1 Liter?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time it takes for the balloon to hit the ground (starting at   
    lab desk height) (Seconds - s)

* Challenge: How could you increase the time it takes for the balloon to fall? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (Centimeters cubed - cm3) 🡪 L x W x H

* Challenge: How many mm are in 1 cm? \_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (Millimeters cubed - mm3) 🡪 L x W x H

* Challenge: How many mm are in 1 m? \_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mass of cube (Grams - g)

* Challenge: Is the mass of an object the same as its weight? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Downward Force of cylinder (Newtons - N)

* Challenge: Is the downward force of the cylinder related to its weight? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_