### **Metric Skill – Test Review**

## **Metric Units**

**Directions**: Complete the chart below:

**Metric Unit Review** 

THE THE THE TENT				
Metric Unit	Metric symbol	What is measured?	Instrument Used?	

## **Metric Conversion Practice**

<u>Directions</u>: Solve all conversion problems and be sure to show work!

Prefix Chart					

3.) 
$$7.2 \text{ km} = \underline{\phantom{0}} \text{ cm}$$

4.) 
$$140 \text{ dg} = \underline{\qquad} \text{dag}$$

6.) 
$$.25 \text{ m} = \underline{\qquad} \text{mm}$$

# SCIENTIFIC MEASURMENT:

1.W	1. What are measurements used for in science?				
2.W	2. Which measurement system is used by scientists?				
3. W	3. Why is uniform measurement important?				
	4. List the 3 basic units of metric measurement,				
5. C	onvert the following measurem	ents:	_		
	a. 34 mm = cm	b.	3 km = _	m	
	c. 234 cm = m	d.	35 m = _	mm	
LENGTH:  1. What is the basic unit for length?  2. Choose the best unit for measuring each distance:					
a.	Thickness of an eyelash:	mm	cm	m	
b.	Length of a pencil:	cm	m	km	
3. Use a	n meter stick or metric ruler to f	ind each n	neasureme	ent.	
a.	Width of this page	mm	0	r	_ cm
b.	Length of a pen	cm			
AREA:  1. The units of area are:  2. Find the area of the surface below, by using the formula:					
	5cm				
	26 mm				

### MASS:

1. What is the basic unit for mass?

2. Choose the best unit for measuring each mass:

a. Amount of spices in a batch of cookies: mg kg  $\mathbf{g}$ 

b. Your mass: mg kg

c. Mass of 10 pennies: mg kg

3. Be able to use a triple-beam balance to find each measurement.

a. Mass of an ink pen \_\_\_\_\_ g

b. Mass of a can of soda g

4. Convert the following measurements:

a. 16 mg = gb. 4.7 kg = gc. 12,345 g = gkg
d. 2 g = g

#### VOLUME:

1. What is the basic unit for volume? \_\_\_\_\_

2. Circle the best unit for measuring each volume:

a. Amount of soda in 1 can: mL L

b. Water in a bathtub: mL L

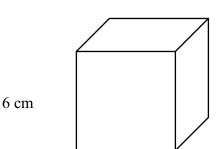
3. Determine the volume for each object.

a. Use L x W x H to find the volume of a chalkboard eraser

cm3 b. Explain how the Water Displacement Method works?

4. Convert the following measurements:

5. Find the volume of the box below, using the formula:



4 cm

- a. How many mL of water would fill the box above?
- b. What is the Mass of the water that filled the box?

**Temperature:** 

1.	Temperature is a way of	measuring				
2.	Heat is the energy	give off as they collide				
		object to the				
		object, therefore	objects are			
	warmed up not the other					
4.	1	•	uch, they are close together			
5.		molecules move faster, bump into each other, and				
	spread out		,			
5.	-	molecules have more space between them and take up				
	more space.	1	1			
7.		is the instrument	t used to measure the			
	temperature of objects					
3.	Thermometers measure temperature in different scales in Fahrenheit, Celsius, and					
	Kelvin. Which scale is described below:					
		scale is used in	the US ( it contains an			
ark	oitrary 180 degrees betwe	en freezing and boiling point	)			
lix	b scale is used by the rest of the world (this scale is livided into 100 degrees between freezing and boiling point)					
<i>4</i> 1 (		scale is used by scienti				
<b>4</b>		e point at which there is no m				
		lor liquid (usually alcohol) m				
<i>,</i> .		move when	<u> </u>			
		when molec				
10	Fill in the missing Celsi		uics move less.			

