Station #1

Materials:

25 ft. tape measure

Activity:

Measure the classroom. Measure the length, width and height. Sketch the dimensions of the room, modeled to scale.

Use the following: ¼ inch = 1 ft. Include all windows and doors.

Use the space below for your sketch

Station #2

Materials:

Triple Beam balance, fake dollar bill (use a real one if you have it available), and internet

Activity:

Determine the mass of a dollar bill. Determine how many pounds of dollar bills it would take to purchase a Tesla car in cash. If you are using a $5 or $10 bill, be sure to take that into account and make note of it on this worksheet

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What are you weighing? _____

How much does it weigh? _____

What is the cost of a new Tesla? _____

Use the space below to calculate how many pounds of dollars you would need to purchase the Tesla. Circle your final answer.

Station #3

Materials:

12 inch ruler, Dry erase marker, pencil, pen, paperclip, book, cell phone or tablet (optional), other misc. items

Activity:

Use the ruler to measure the items – to the nearest sixteenth of an inch (inches and fractions)

Item	**Fractions** (Nearest sixteenth of an inch)	**Decimals**
Marker: length, diameter		
Pencil: length, diameter		
Pen: length, diameter		
Phone/tablet screen: length, width		
Book : length, width, thickness		
Paper clip: length, width		
Dimensions of (item 1)		
Dimensions of (item 2)		

Use the space below for any calculations and/or notes

Station #4

Materials:

3 Beakers, hot plate, thermometer, ice, water

Activity:

Measure the temperature of water at room temp., ice water, and of water on the hot plate (record the temperature settings and time spent on the hot plate)

Record the temperature of each water:

	Room temp water	Ice water	Heated water
Fahrenheit			
Celsius			
Kelvin			

$F = 1.8C + 32$ $C = 0.55(F - 32)$ $K = C + 273$

Use the space below for your calculations and/or notes

Station #5

Materials:

String pieces, identical lengths

Activity:

Each group must measure their string without any rulers (nothing with numbers on it).

You may use any unit you choose: inches, centimeters, thumbs, arm lengths, paper etc.

Create a group chart on the chalkboard/whiteboard – the group with the closest answer wins!

Write down your educated measurement here _____

What units did you use? (Thumbs, inches etc.) _____

Convert your answer to centimeters _____cm

Now measure the string with a ruler _____cm

Use the space below for your calculations and/or notes

Station #6

Materials:

Caliper, Dry erase marker, pencil, pen, paperclip, book, cell phone or tablet (optional), other misc. items

Activity:

Use the caliper to measure the same items as with **Station #3**

Measure items to the nearest thousandth of an inch.

Convert your fractions to decimals

Item	**Fractions** (Nearest thousandth of an inch)	**Decimals**
Marker: length, diameter		
Pencil: length, diameter		
Pen: length, diameter		
Phone/tablet screen: length, width		
Book : length, width, thickness		
Paper clip: length, width		
Dimensions of (item 1)		
Dimensions of (item 2)		

Now compare to your measurements from **Station #3**

Item	**Decimals using 12 inch ruler**	**Decimals using caliper**
Marker: length, diameter		
Pencil: length, diameter		
Pen: length, diameter		
Phone/tablet screen: length, width		
Book : length, width, thickness		
Paper clip: length, width		
Dimensions of (item 1)		
Dimensions of (item 2)		

Use the space below for your calculations and/or notes