Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Measurement Lab

Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 1: Distance**

Materials: metric rulers, meter sticks, pencil

|  |  |  |
| --- | --- | --- |
|  | **cm** | **mm** |
| 1. Length of your hand |  |  |
| 2. Length of your pencil |  |  |
| 3. Your height |  |  |
| 4. Length of your foot |  |  |
| 5. Height of your desk/table |  |  |
| 6. Width of the desk/table |  |  |
| 7. Length of your paper |  |  |

**Station 2: Liquid Volume NEVER TASTE ANYTHING IN LAB**

Materials: graduated cylinders, beakers

|  |  |  |
| --- | --- | --- |
|  | **ml** | **L** |
| 1. green liquid |  |  |
| 2. red liquid |  |  |
| 3. blue liquid |  |  |
| 4. yellow liquid |  |  |
| 5. purple liquid |  |  |

**Station 3: Volume for a Regular Solid**

Use the formula Length x Width x Height

Materials: Kleenex Box, Textbook, small book, calculator

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Length in Centimeters | x | Width in centimeters | x | Height in centimeters | = | Volume in cm3 |
| Kleenex Box |  | x |  | x |  | = |  |
| Textbook |  | x |  | x |  | = |  |
| Small Book |  | x |  | x |  | = |  |

Guess what! 1 cm3 is equal to 1 ml. That means that if a cube has a volume of 10cm3 it would be the same as 10 ml.

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**Station 4: Mass**

Materials**:** 2 triple beam balances, 5 objects

Use the triple beam balance to determine the mass of the objects.

Remember: there are 1000 milligrams in 1 gram.

Example 4 grams = 4000 milligrams

|  |  |  |
| --- | --- | --- |
|  |  Grams | milligrams |
| Object 1 |  |  |
| Object 2 |  |  |
| Object 3 |  |  |
| Object 4 |  |  |
| Object 5 |  |  |

**Station 5: Volume of an Irregular Shape**

Materials: plastic graduated cylinders, 3 objects

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | FINAL WATER LEVEL in ml | **\_\_\_** | BEGINNING WATER LEVELIn ml | **=** | VOLUME of the object in ml  |
| Object 1 |  |  |  |  |  |
| Object 2 |  |  |  |  |  |
| Object 3 |  |  |  |  |  |

**Station 6: Precision Measurement**

Materials: Calipers, 3 objects

|  |  |
| --- | --- |
| Object 1 |  |
| Object 2 |  |
| Object 3 |  |

**Station 7: Mass vs. Weight**

Materials: Scale, calculator

What is your mass? \_\_\_\_\_\_\_\_\_\_kg

What is your weight? \_\_\_\_\_\_\_\_\_Newtons (Weight = mass(kg) x 9.8 m/s/s)