

Name _____ Date _____ Period _____

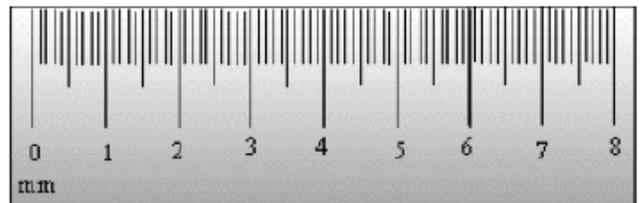
Metric System Notes

The Basics

- Scientists all over the world use the _____.
- Since scientists everywhere use the _____ measurements, it helps eliminate _____ when scientists from _____ places share their data.

Metric Unit Conversion

- The metric system is based on multiples of _____. _____ are used to indicate the unit.
- king _____ Died by _____ chocolate _____ is a mnemonic to help remember the order of metric system.
- To convert to a smaller unit, move the decimal point to the _____. To convert to a _____ unit, move the decimal to the _____.
- Practice
 - 5 centimeters= _____ meters
 - 0.45 kilograms= _____ grams
 - 1.45 meters= _____ millimeters

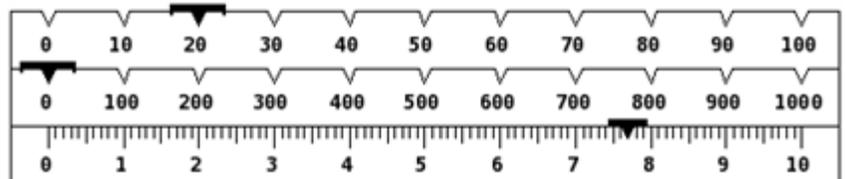


Using a Metric Ruler

- In the SI System, the ruler is used to measure _____.
- Always use the _____ side of the ruler.
- There are _____ centimeters on a standard metric ruler.
- Each centimeter is divided into _____ smaller parts called _____.

Using a Triple Beam Balance

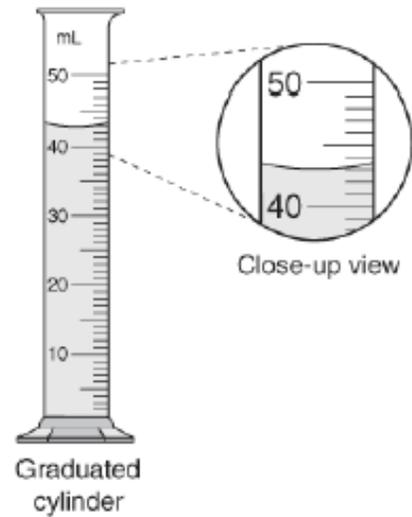
- The balance is used to measure _____.
- Always start with the value at _____.
- To find the correct mass, move the weights until the pointer is _____.
- To calculate the mass, add all _____ beams together. Be sure to _____ the decimals!
- Triple beam balances typically measure using the unit of _____.



Name _____ Date _____ Period _____

Using a Graduated Cylinder for Liquid Volume

- In the SI System, the graduated cylinder is used to measure _____.
- Graduated cylinders typically measure using the unit of _____.
- Liquid molecules “stick” to the side of a graduated cylinder causing the liquid to make a “dip” called the _____.
- To correctly read the volume, look at the _____ part of the meniscus.



Tools of Science

Match the tool of science with its function.

- | | |
|-----------------------------|--|
| _____ 1. Computer | a. Used to measure length. Meter is the metric standard unit. |
| _____ 2. Calculator | b. Used to measure time. Second is the metric standard unit. |
| _____ 3. Microscope | c. A cylindrical shaped tube to hold liquids during an experiment. |
| _____ 4. Telescope | d. Used to measure temperature. Celsius is the metric standard unit. |
| _____ 5. Meter Stick | e. Used to measure the mass of an object. Grams is the metric standard unit. |
| _____ 6. Thermometer | f. Electronic device used for solving mathematical problems. |
| _____ 7. Stopwatch | g. Used to measure the volume of a liquid. For accurate results read the bottom of the meniscus. |
| _____ 8. Balance | h. Used to see objects in the sky such as stars and other planets. |
| _____ 9. Graduated Cylinder | i. Used to measure the mass of an object by hanging it on a hook. |
| _____ 10. Spring Scale | j. Used to view small objects on a slide. The word means to 'see small objects'. |
| _____ 11. Test tube | k. Electronic tool used to complete research, analyze results of an experiment, graph data, and communicate results to other scientists. |