



Let's talk Metric	
<ul> <li>Here in America we use ye olde English system: foot, yard, and mile.</li> </ul>	
<ul> <li>However, MOST countries use another system called the International System of Units</li> </ul>	
This is the modern form of the metric	
system.	

It all depends on	the foot!
<ul> <li>Numbers and units are used to make measurements.</li> </ul>	
The distance from your desk to my desk could be 25 shoe lengths or 30 shoe	
It depends on how big the shoe is.	
Think of Shaq's foot versus     Mini-Me.	

The all demonds on the fact	
It all depends on the tool!	
•	
<ul> <li>In order to measure accurately we have</li> </ul>	
to use standard units	
To use stundurd units.	
<ul> <li>In other words, everyone has to use the</li> </ul>	
SAME cyctam on unite	
SAME SYSTEM OF UNITS.	
<ul> <li>Otherwise, it just gets confusing.</li> </ul>	
• A standard is a fixed quantity used by	
everyone when measuring.	
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 Metric System: Lenath	
• The meter (m) is the SI unit of length.	
 <ul> <li>A meter is about the distance from a</li> </ul>	
doorknob to the floor.	
- A driver colf club is also about a mater in	
- A differ golf club is disc about a meter in	
iengrn.	
<ul> <li>The meter is divided into 100 equal</li> </ul>	
parts called <b>centimeters (cm)</b>	
<ul> <li>There are 100 centimeters in a meter:</li> </ul>	
 - 100 cm = 1 m	







You try it! What is the	most appropriate unit for
a scientist to use to r	measure the following?
<ul> <li>Distance from San Diego to New York</li> <li>km</li> <li>Length of your eyelash</li> <li>mm</li> <li>Distance from A306 to the office</li> <li>m</li> </ul>	<ul> <li>Length of your arm</li> <li>cm</li> <li>Height of this building</li> <li>m</li> <li>Length of a grain of salt</li> <li>µm</li> </ul>















Measuring a volume Musical Math DVD Peter Weatherall www.kidsinglish.com info@kidsinglish.com	 4. How to measure Volume	
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Som	-100 -50ml	









	Volume of Liquids	
هٿِ	· For liquid objects we use anaduated cylinders to	
_ K <u>=</u> #	measure the volume	
- Graduated	The cooking we may also use measuring cups	
Cylinder	teaspoons or tablespoons	
- (97	The level of a liquid in a graduated cylinder chowe	
	the volume of the liquid	-
208	A liter (1) is that is usually used to express volume	
	A inter (c) is much suburity used to express volume.	_
	• A soft drink bottle is a 2-liter bottle.	
	For smaller volumes, we use:	
Acres (TY	- milliliter (ml)	
Con Cola	<ul> <li>cubic centimeter (cm<sup>3</sup>).</li> </ul>	
	<ul> <li>1 liter contains 1000 milliliters or 1000 cubic</li> </ul>	
	centimeters.	
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1       14       Put II in the graduate of an irregular object such as a key of an irregular object such as a construction of an irregular object such as a key of an irregular object such as a measuring cup.         8       7       8       8       9 <th>Volume of Solid Irreg Objects</th> <th>jular</th> <th></th>	Volume of Solid Irreg Objects	jular	
Mow much we object     Image: Constraint of the method.     Image: Constraint of the method.     Image: Constraint of the method.       • We call this the <u>displacement</u> method.     • You will practice it during our lab this week	So, how would I mea of an irregular object of an irregular object - I can't measure the use a measuring cup. - But I CAN still use of cylinder. - Simply submerge the graduated cylinder of difference in water - We call this the dig method. - You will practice it of this week	isure the volum ct such as a key sides and I car a graduated e object in the and record the level. placement during our lab	<u>e</u> y? 1't











Review: Reading the Balance:	You Try It!
0 10 20 30 40 0 100 200 300 111111111111111111111111111111111	1. What does this balance read? √323.5 grams





