









Topic: Measurement and Graphing

Aim: What are the units of measurement used in Earth Science?

Measurement / Definition / Associated Information	Units	Instrument
1 DISTANCE	meter	metric ruler 
2 TIME	seconds	stopwatch 
3 TEMPERATURE	°Celsius	thermometer 
4 SPEED / VELOCITY / RATE	cm/sec , km/hr	metric ruler and stopwatch
5 MASS a. MASS – the amount of matter (stuff) in a substance b. WEIGHT – the pull of gravity on an object - as the distance from a planet's core increases, the gravitational pull on an object decreases (object will have less weight). - the smaller the core, the less gravitational pull, the less the weight of objects on the surface	grams	digital scale  triple-beam balance 
6 VOLUME a. VOLUME – the amount of space a substance takes up b. rectangular objects: use the formula $v = l \times w \times h$ (units will be cm^3) irregular-shaped objects: water displacement (units will be mL)	cm^3 or mL (milliliters)	metric ruler or    graduated cylinder 