



FOSS Measuring Matter Module

Student By Item for Hetty

Posttest

September 11, 2012

Teacher: test1

Item	Correct Response	Your Response	Hetty...
IA: Matter exists in three states.			
4	2	2	knows how to define the three states of matter.
IB: Matter has physical properties that can be observed and quantified.			
12	C	C	knows that color and mass do not change when something melts.
IIA: Mass is conserved.			
3	D	B	probably knows that the total mass of a solution is equal to the sum of its parts (water + solid), but made this calculation using only one spoon of solid rather than three.
IIB: Change of temperature associated with change of state.			
5	J	J	can identify the process of condensation.
7	A	A	knows that water (snow) melts when the air temperature is above 0°C.
15	4	4	understands that change of state is associated with change of temperature and can describe two examples.
IIC: During physical interactions, substances retain their original properties.			
13	H	H	recognizes an example of dissolving.
14	4	4	can describe three things that can happen when two materials are put together: a mixture, a solution, or a chemical reaction.
IID: During chemical reactions, starting substances (reactants) change into new substances (products).			
11	G	G	knows the definition of a mixture.



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IIID: Scientists collect, analyze, and interpret data.			
1e	2	2	knows which tool is used to measure temperature.
8	F	F	understands that the mass pieces on one side of a balance equal the mass of an object on the other side of the balance when the balance arm is level.
1h	3	2	knows a kilogram is used to measure mass, but needs help with the unit used to measure smaller objects.
6	3	3	can identify the volume of liquid in a graduated cylinder.
2	4	4	knows how to measure length when an object does not line up with zero on a meter tape.
1g	2	2	knows which tool is used to measure mass.
1b	3	3	knows which metric unit is used to measure the length of objects less than a meter.
10a	3	3	can read a thermometer and record temperature accurately.
1f	3	3	knows which unit scientists use to measure temperature.
1d	3	3	knows which metric unit is used to measure volume.
9	B	B	understands a chemical reaction occurred in which gas bubbles were not captured, leading to an apparent loss of mass.
1a	2	2	knows which tool is used to measure length.
1c	2	1	needs help choosing a tool to measure the volume of a liquid.
10b	2	2	can interpret temperatures in Celsius to decide whether or not to wear a jacket.