

Name	Teacher	Period
		Date

Evaluating Reasoning as an Individual

Question: Are Item #1 and Item #2 the same substance or different substances?				
Given Scientific Reasoning	Includes appropriate science vocabulary? (Yes or No)	Explains the science facts (big ideas) behind the Evidence and Claim? (Yes or No)	Connects Claim and Evidence and/or answers why or how the evidence supports the claim (Yes or No)	Reasoning Total Score (Add # yes)
<p>Directions: Evaluate each reasoning statement given below by answering yes or no for each question on this rubric. After evaluating each, answer the questions at the bottom of the page.</p>				
(a) Color, hardness, solubility, melting point and density are all properties of matter. Because the two substances have different properties, I know they are different.				
(b) Because of the data I collected, I know that #1 and #2 are not the same substance				
(c) In science I have learned that properties are characteristics of a substance that are independent of the amount of the sample. The properties are solubility, density and melting.				
(d) In science we know that all matter is defined by its properties (density, solubility, melting/boiling points) and that different matter has different properties. As a result, if two substances are shown to have different properties, then the two substances must be different.				

Answer the following questions:

- Which scientific reasoning statement is the strongest: (circle one) a, b, c, d
Why?
- Which scientific reasoning statement is the weakest: (circle one) a, b, c, d
Why?