Mystery of the Burned Towel Investigation

Questions & Data

Mystery of the Burned Towel Stations

Station 1: Density

Trials	Mass (g)	Volume (mL)	Density (g/mL)			
Trial 1						
Trial 2						
Trial 3						
How precise were your measurements?						
2. Derived units are those that are made of one of more basic units. What are the basic units that make up density? 3. Intensive properties are those that do NOT depend on the amount of material present. Extensive properties change based on the						
amount of material. Is density intensive or extensive?						
Station 2: Area						
1. Qualitative Data:						
Quantitative Data (use units and appropriate sig figs): Approximate Length: Approximate Width: Area:						
3. Intensive properties are those that do NOT depend on the amount of material present. Extensive properties change based on the amount of material. Is density intensive or extensive?						

Station 3: Design an Experiment

Question:							
Hypothesis:							
Independent Variable:							
Dependent Variable:							
Controls:							
Station 4: Panel of Liquids Record data in the table. Don't forget units!							
Liquids	Smell	Transparency	Mass	Volume	Density		
Α							
В							
С							
D							
Do you think any of the liquids are flammable? If so, which ones?							
Station 5:							
Watch the video on physical and chemical properties. Is flammability a chemical or physical property?							
Watch the video on physical and chemical changes. Does a fire cause a physical or chemical change?							
Watch the video on flammability. Is heat needed for objects that are flammable?							

