	Na	ame	 	Date:				
	Data Table and Explanation							
		Purpose: Decide whether the amount of matter changes during physical and chemical changes.						
Procedure								
Check off each step after you complete it.								
	1.	Have one member of you materials you'll need from						
	Pa	rt 1: Physical Change						
	2. Predict: Do you think the weight of the liquid water bottle and the frozen water bott will be the same or different? Why do you think so?							
				· · · · · · · · · · · · · · · · · · ·				
	3. Place the liquid water bottle on one side of the balance. Wipe the frozen water bottle with a paper towel to make sure it's dry on the outside. Then place the frozen water bottle on the other side of the balance. Record your results on the data table by writing "Same" if both sides of the balance are equal (even) or "Different" if both sides aren't equal.							
	4.	4. Place one bag of 5 Lego water molecules on one side of the balance. Place the other bag of 5 Lego water molecules (representing ice or solid water) on the other side of the balance. Record your results on the data table by writing "Same" if both sides of the balance are equal or "Different" if both sides aren't equal.						
	=		Data Table					
		Beginning Substance	Final Substance	Same or Different Weight?				

Beginning Substance	Final Substance	Same or Different Weight?
Liquid water	Solid water	
Lego water molecules (representing liquid water)	Lego water molecules (representing solid water, or ice)	

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	5.	•	ta table and the Lego model d or destroyed when it chang			
_				vinegar and baking soda will d together? Why do you think		
	7. Place one plastic bag containing the vinegar and baking soda on one side of the balance. Be careful not to mix the ingredients in this bag! Then without openin the second plastic bag, remove the cap on the vial and pour out the vinegar so it mixes with the baking soda. Remember not to open the plastic bag! Then place this bag on the other side of the balance. Record your results on the data table by writing "Same" if both sides of the balance are equal or "Different" if both sides are equal.					
		Data Table				
		Beginning Substance	Final Substance	Same or Different Weight?		
	-	Vinegar and baking soda	Fizzing mixture with gas			
		Lego molecules of vinegar and baking soda	Lego molecules of mixed vinegar and baking soda			
	8.	of vinegar on one side of t molecules on the other sid	he balance. Then place the l le of the balance. Record the			

9.	Use the data from your data table and the Lego models to answer the focus question: Is matter created or destroyed when it changes? How do you know?