

Science Notebook Layout **DON'T COPY UNDERLINED TEXT**

Mrs. Aguirre's Webpage: <http://www.quia.com/profiles/caguirre>

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Reactants
203

1. Draw reactants and products of the vinegar and baking soda reaction using the pages above. Count the total number of atoms for the reactants and products and fill in the chart at the bottom of each side.

2.

3.

Atom	No.
Na	
C	
O	
H	

Products
204


1.

2.

Atom	No.
Na	
C	
O	
H	

The Law of Conservation of Matter

1. What is meant by "conservation of mass?" (pg. 205 middle paragraph) The mass of the _____ equals the mass of the _____ because they are the same _____. ! They have just been rearranged into new _____.



A. Did you lose anything?

First Piles			Second Piles		
	Number of coins	Cash Value		Number of coins	Cash Value
Pennies			Stack 1		
Nickels			Stack 2		
Dimes			Stack 3		
Quarters			Stack 4		
TOTAL			TOTAL		

- Did the total value of the coins change? _____
Did the total number of the coins change? _____
Did rearranging the coins change any one coin's value? _____
- Do the kinds of atoms (elements) change in a chemical reaction? _____
Did the total number of the atoms change in a chemical reaction? _____
Does rearranging the atoms in a reaction change any individual atom? _____
- If this was a model for a chemical change, what does each represent:
 - One coin _____
 - FIRST Groups of coins. _____
 - Rearranging of coins _____
 - SECOND piles of coins. _____
- Which are conserved? Check those NOT changed in chemical reactions.
 atoms elements compounds molecules mass
- Explain how the model of rearranging of coins shows the conservation of matter.

How does the model or rearranging the coins show conservation of matter?

- I agree with you and...
- I agree with you but...
- I disagree with you because....