

NGSS
Aligned

Black-Eyed Susan Science



Squiggle Sheets

Law of Conservation of Mass

LAW OF CONSERVATION OF MASS

-MATTER CANNOT BE CREATED OR DESTROYED...
IT SIMPLY CHANGES FORMS



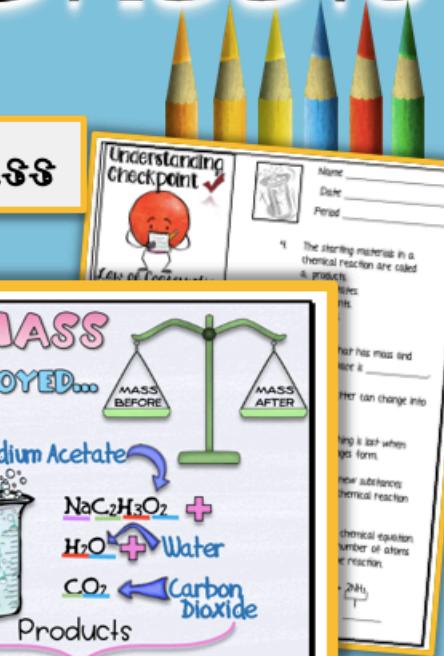
HOW MANY TOTAL ATOMS ARE THERE?
5 HYDROGEN 1 SODIUM
5 OXYGEN 3 CARBON

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Bonds were broken Atoms rearranged

Everything is still there

ANOTHER EXAMPLE
LAW OF CONSERVATION OF MASS
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3 Versions!

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Thank you for your support and interest in Black-Eyed Susan Science! Creating practical, fun, and engaging activities is my goal. I hope you find this resource useful and I look forward to positive feedback.

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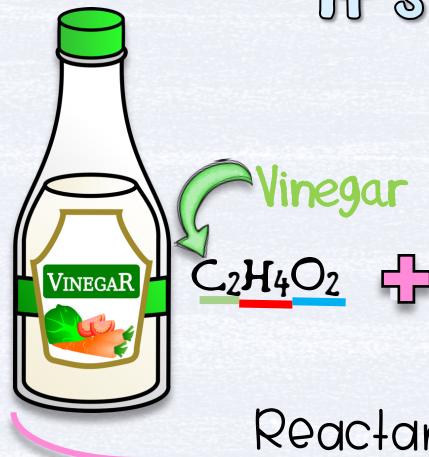
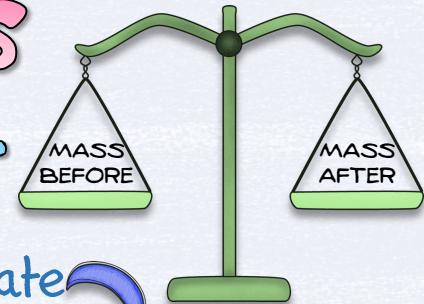
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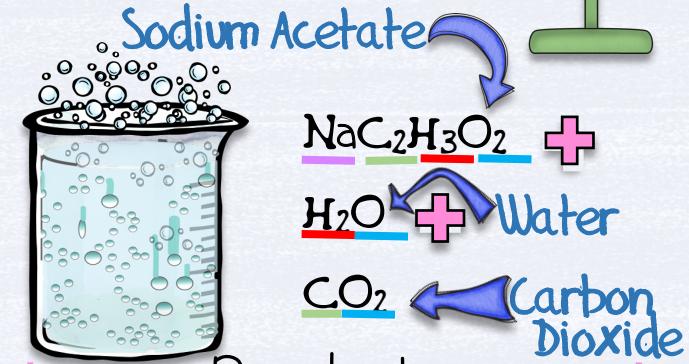
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Reactants

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Products

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ANOTHER EXAMPLE:



Mass of wood and oxygen



Mass of ashes, carbon dioxide, and water

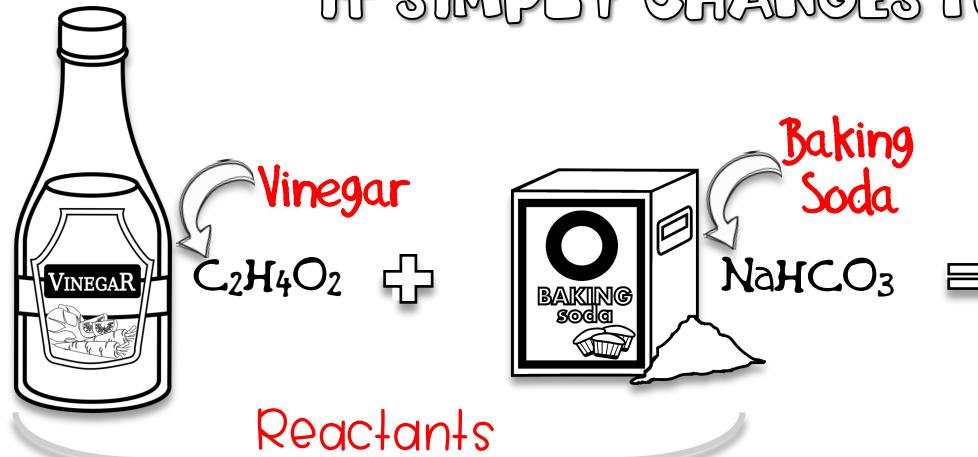
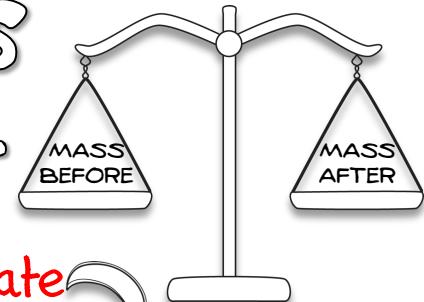
MATTER DOES NOT TURN INTO OR APPEAR FROM ENERGY.

NOTHING IS LOST!!!

PARTICLES DON'T JUST APPEAR OR GET CREATED; THEY GET ARRANGED; CHANGE.

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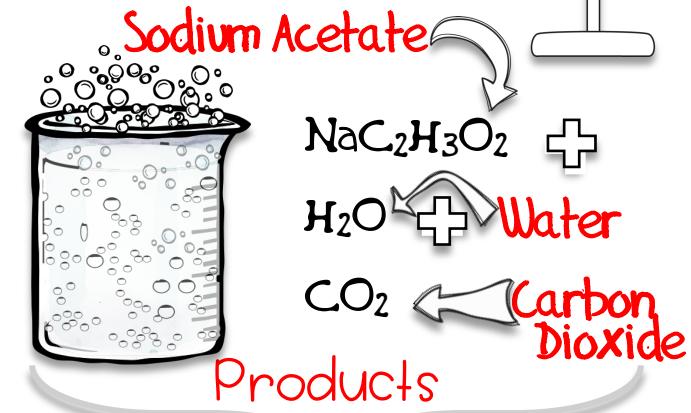
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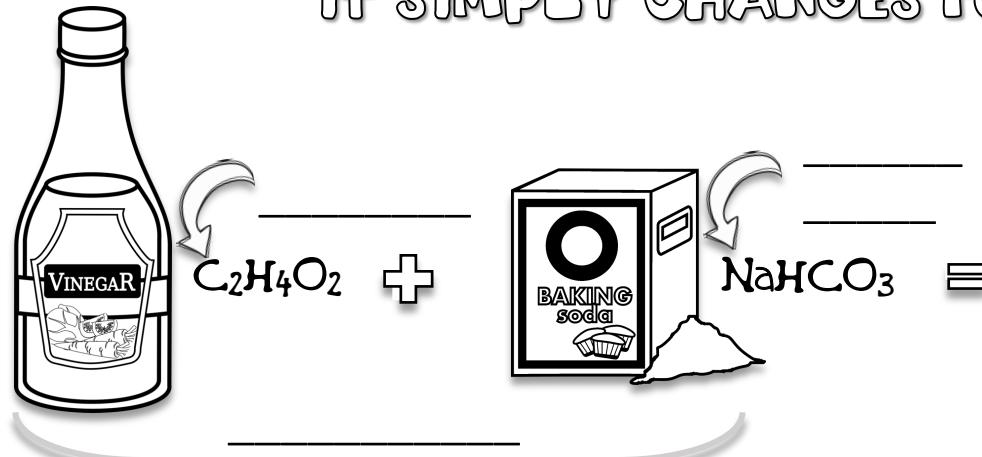
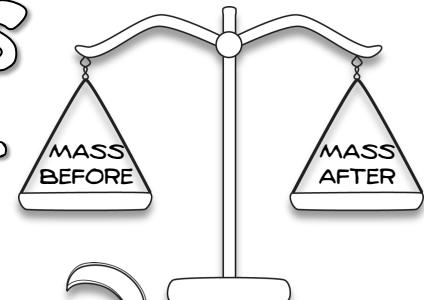
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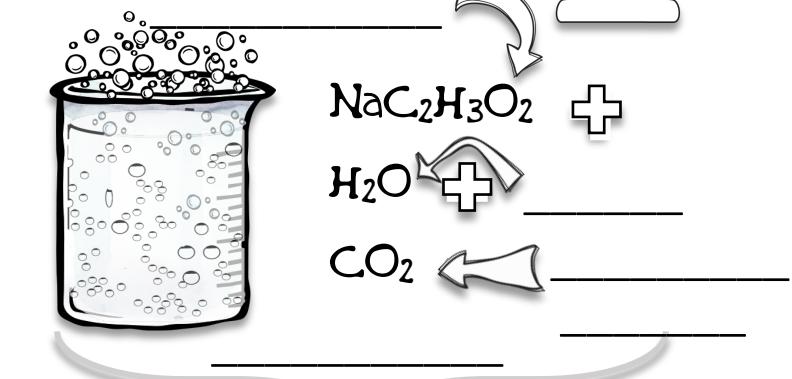
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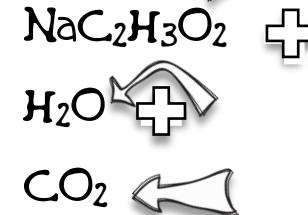
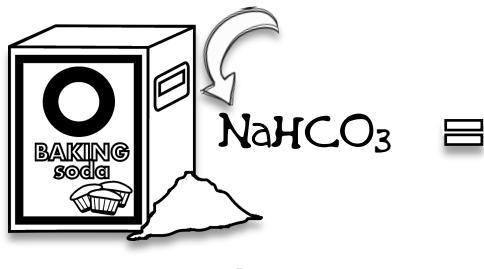
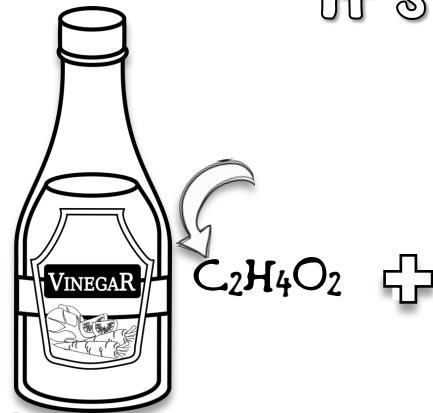
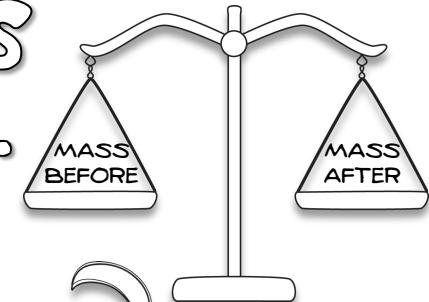
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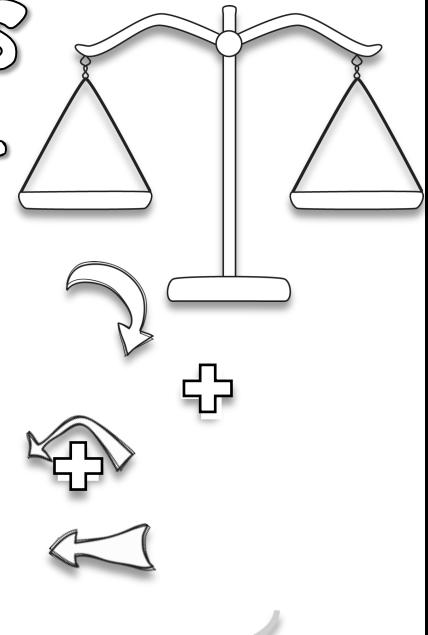


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ANOTHER
EXAMPLE:



Understanding Checkpoint ✓



Law of Conservation of Mass



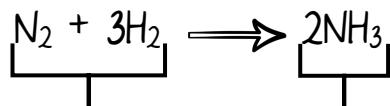
Name _____

Date _____

Period _____

1. Matter cannot be created nor destroyed, it can only _____.
2. The total amount of atoms before and after a chemical reaction
 - a. stays the same.
 - b. increases.
 - c. decreases.
 - d. both b and c.
3. If 4 atoms of hydrogen react with 2 atoms of oxygen, how many atoms will be in the product?
 - a. 2
 - b. 4
 - c. 6
 - d. 8
4. The starting materials in a chemical reaction are called
 - a. products.
 - b. precipitates.
 - c. reactants.
 - d. isotopes.
5. Anything that has mass and takes up space is _____.
6. T or F: Matter can change into energy.
7. T or F: Nothing is lost when matter changes form.
8. T or F: The new substances formed in a chemical reaction are products.

Study the following chemical equation. Identify the total number of atoms before and after the reaction.



9. _____

10. _____

Understanding Checkpoint ✓



Law of Conservation of Mass



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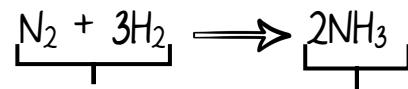
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The Painted Crow

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