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Thanks again!

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Law of Conservation of Mass Exit Ticket Name: Hour: Date: 1. What does the Law of Conservation of Mass state? a. Mixtures combined create new matter. b. Matter is not created or destroyed in any chemical or physical change. c. Chemical and physical changes can create or destroy matter but not at the same time. d. Matter can be created in chemical changes only. 2. What happened to the atoms in a piece of wood that was burned? a. They are grouped differently, but all of the atoms are still there. b. They are grouped differently, but some of the atoms were burned and destroyed in the fire. c. All of the atoms were destroyed in the fire. d. The atoms in the wood moved really fast and then stopped moving forever. 3. A student placed fruit in a tightly sealed bag and found the mass of the fruit every week. She found the mass did not change over time even though the fruit was going through a chemical change. Is this an example of the Law of Conservation of Mass? Why or why not? Answer in sentences. **4.** Examine the pictures of particles below. Is this possible after a chemical change? Why or why not? Explain in sentences. Before the Change After the Change Created and copyrighted by Elly Thorsen 2015 © https://www.teacherspayteachers.com/Store/Elly-Thorsen

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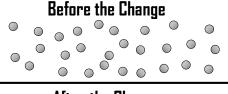


Answer Key

- 1. What does the Law of Conservation of Mass state?
 - a. Mixtures combined create new matter.
 - (b.) Matter is not created or destroyed in any chemical or physical change.
 - c. Chemical and physical changes can create or destroy matter but not at the same time.
 - d. Matter can be created in chemical changes only.
- 2. What happened to the atoms in a piece of wood that was burned?
 - (a.) They are grouped differently, but all of the atoms are still there.
 - b. They are grouped differently, but some of the atoms were burned and destroyed in the fire.
 - c. All of the atoms were destroyed in the fire.
 - d. The atoms in the wood moved really fast and then stopped moving forever.
- **3.** A student placed fruit in a tightly sealed bag and found the mass of the fruit every week. She found the mass did not change over time even though the fruit was going through a chemical change. Is this an example of the Law of Conservation of Mass? Why or why not? Answer in sentences.

Example Answer: This is an example of the Law of Conservation of Mass because it shows no matter (or mass) is lost even during a chemical change. All of the matter is still in the bag, just in a different form.

4. Examine the pictures of particles below. Is this possible after a chemical change? Why or why not? Explain in sentences.



After the Change

Example Answer: This change is not possible because of the law of Conservation of Mass. The picture "After the Change" shows all of the atoms have disappeared. We know from the law that atoms are never destroyed or created in chemical changes; they are only rearranged.

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