|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Mixed Together** |  |
| **Molecular Model** | Solids | ***What happens when the ingredients (reactants) in the candy interact with water?*** | Dissolved solids |
| **Counting Atoms** |  |  |
| **Chemical Formula** | + | + |
| **Molecular Model** | Water | Gas |
| **Counting Atoms** | These water molecules are only involved in dissolving the reactants. They do not chemically change. |  |
| **Chemical Formula** |  |  |
| **Total Atoms** |  | **=** |  |

**SUMMARY:**

***Question:*** “***How is it possible that a new substance (the gas) was produced and the total mass of the closed system didn’t change?*** ”

***Explanation:*** On the lines that follow 1) Make a **CLAIM** using your model to answer the question above; 2) Support your claim by including E**VIDENCE** from our class investigation; 3) Give a **REASONING** to help define what you learned that helped to make sense of how a new substance appeared without changing the mass of the system. Do this by listing the ***scientific principles*** that provide evidence that supports your idea for what is happening. If you need more space, see me for a lined sheet of paper.

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