

Name: _____

Period: _____

Law of Conservation of Mass:

mass is neither created nor destroyed

Open system:

mass can be lost.

Nothing to keep it in.

Closed System:

Mass stays the same.

Kept from going anywhere.

Example: taking a

shower with the

door open.

Example:

taking a shower with

the door closed.

Class Demo:

the water in the beaker was evaporating on the hot plate

since nothing was covering

the opening.

Class Demo:

The steam from the boiling water was condensing back into water when it hit the paper covering the opening of the beaker.

Salt Water Mini Lab

- Measure the mass of the water & beaker with the scale. Record here (include units): 59.2 g
- Measure the mass of the salt. Record here: 10 grams
- Add the mass of the water & beaker to the mass of the salt first. Record here: 69.2 g
- Pour the salt into the beaker of water. Record the new mass : 69.2 g
- What conclusion can you draw based on your results?

The mass of water + salt separately was the same as when the salt was dissolved in the

water. Meaning mass was kept the same.

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1. When you change states of matter, do you gain, lose or have the same number molecules?

Same number of molecules

2. When a gas turns into a liquid, is more mass created?

NO, it just changes state, but is the same amount!

3. When you turn a liquid into a solid, are new molecules created?

no. They just change state + how they are arrangement, no more are added + none are lost.