

CHANGES IN MATTER

A **physical change** is when something changes its appearance without changing its makeup. An example of a **physical change** is chopping wood. An example of a **chemical change** is burning the wood.



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liquid to a gas. When water is heated and changes from a **liquid** to a **gas**, it changes state but has not become a different kind of matter. When **matter** changes from a **liquid** to a **gas**, the water particles have just spread out so that you can no longer see the water. You can't see the water because it became an invisible gas in the air. When **matter** is cooled, it can also cause a change in states. An ice cube is a solid that when cooled becomes water which is a **liquid**. When water is in a **liquid** state and is heated, the water will soon evaporate and become a gas.

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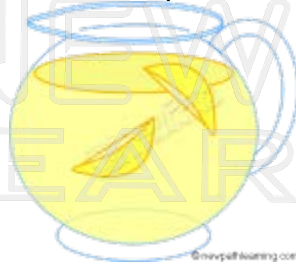
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Lesson Checkpoint: What is a mixture?

A **solution** is a type of mixture. A **solution** is when one or more substances are dissolved into another. An example of a **solution** is dissolving sugar into a glass of water. **Dissolve** means to break into particles so small that we can no longer see the particles. The dissolved particles seem to become part of the liquid.



Sometimes you can separate parts of a **solution** just like we can do with a **mixture**. For example, if you boil salt water, water will evaporate and salt will remain in the pan. Sometimes, however, you cannot separate parts that make up a **solution**.

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you imagine trying to get the egg back out of the cake after you've baked it?!



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When you bite a piece of food, chew the food, and then swallow the food, it is an example of a chemical change because your saliva breaks down the pieces of food so you can swallow and digest them. The saliva creates a chemical change. **Chemical changes** supply our bodies with energy which we need to grow and survive.