

Chemical and Physical Changes



By: Megan H.

Mixture

A mixture is an example of a physical change, or two materials physically combined to create something partially blended.

Some examples are trail mix, the berries shown below, and also iron fillings & yellow sulfur powder.



Compound

A compound is an example of a chemical change, or two materials combined to create a fully blended, new substance.

Some examples are iron disulfide, water, and milk.



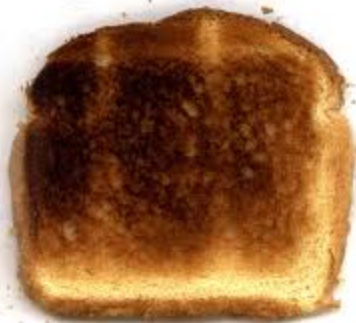
Homogeneous vs. Heterogeneous

- ▶ Homogeneous mixtures and heterogeneous mixtures are two kinds of mixtures. Heterogeneous mixtures are things blended together, except you can see the different parts, like a rock. Homogeneous mixtures are things that are blended completely, like making a milkshake.



Chemical vs. Physical Change

- ▶ A physical change is a change in matter when the material changes in size, state, or shape. An example would be folded paper. A chemical change is a change in matter when the material changes in color, formation of a gas that was not present, or a formation of heat. An example would be burning a toast.

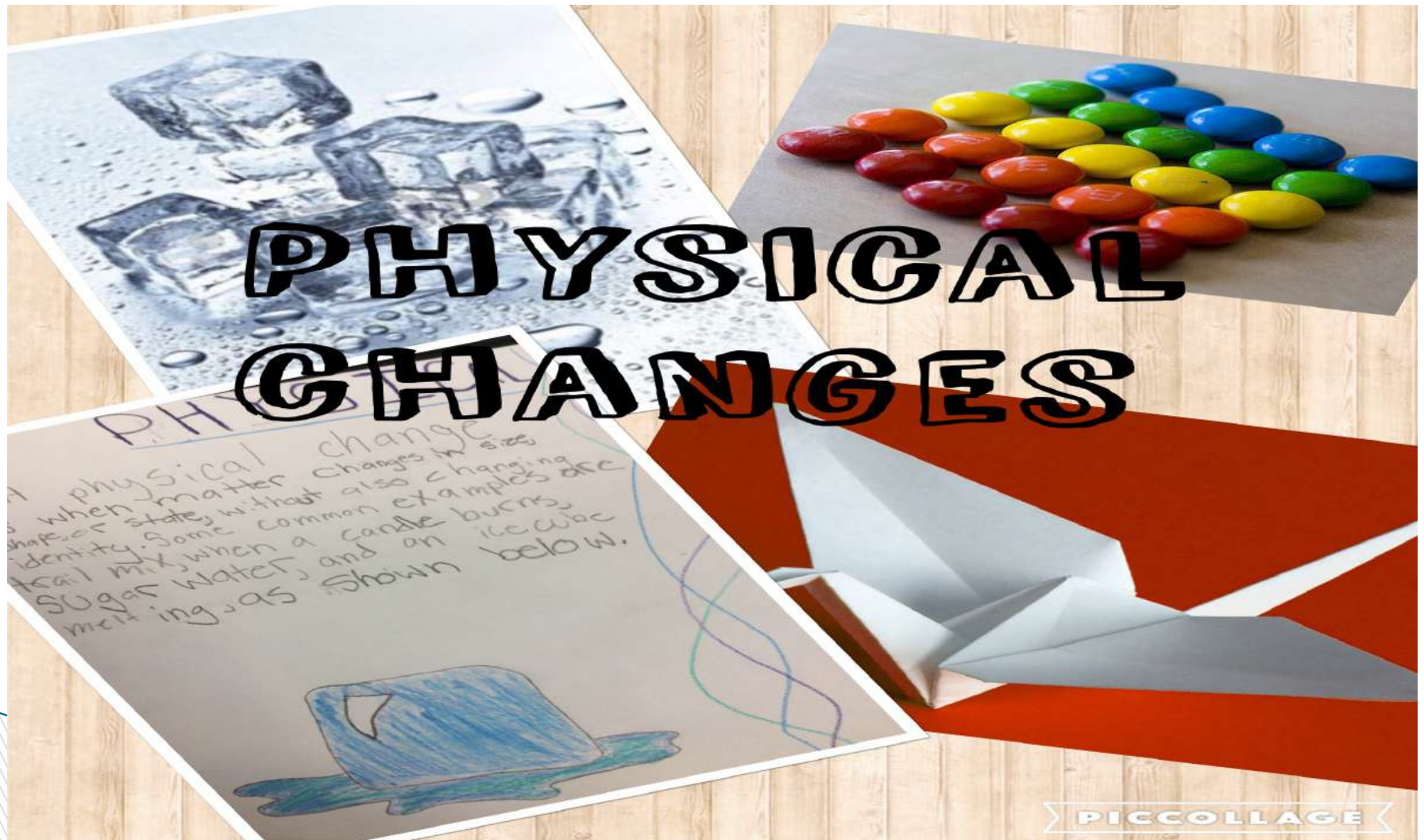


Chemical Change Pic-Collage

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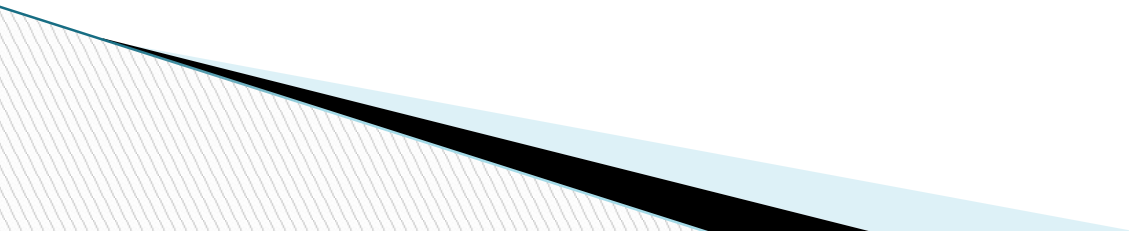


Physical Change Pic-Collage



Why does this matter?

- ▶ This topic matters because it helps you identify chemical & physical changes, homogeneous mixtures, etc. It also helps because if you do a simpler topic, it will be a lot easier.



References

- ▶ –Daniel, L., Hackett, J., Moyer, R., & Vasquez, J. (2006) *Science*. New York: Macmillan/McGraw-Hill
- ▶ –Google Images