Crazy Chemical and Funky Physical Changes

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Mixture vs. Compound

Mixtures are substances that are physically combined. The parts are blended together without forming a new substance. Compounds are substances that are chemically combined. This results in a new substance forming. Compounds have more than one kind of atom. The new substance also has new properties different from the original substances. These two combinations are different because in a mixture you can separate the parts. Where in a compound the parts are completely blended so that means that you can not separate the different parts. Mixtures don't have different properties, where compounds have different properties.





Homogeneous vs. Heterogeneous

A homogeneous mixture is a mixture that is completely blended, and looks the same throughout. An example of a homogeneous mixture is lemonade. Most mixtures are not homogeneous. They are usually heterogeneous. Heterogeneous mixtures are mixtures that are only partly blended. Heterogeneous mixtures are usually speckled, cloudy, or opaque. An example of a heterogeneous mixture would be salad dressing or a rock.





Chemical vs. Physical Change

Chemical Change

Chemical changes are when atoms link together in new ways. New substances form with different properties from the original substances. You can tell if it is a chemical change if there is a,

- · color change
- · a formation of a gas
- · or if light and heat form.

Leaves changing color is a change in color. The leaves went from green to brown. This can't be undone Physical Change Physical changes are changes that don't result in a new substance forming. This kindof change can be undone ar fixed you can tell if it is a physical change if there is a,

- · change in size · change in shape
- · change in state

Cutting paper is a physical change because there was a change in size and shape. This change can be undone.

Chemical Change Pic-Collage



Physical Change Pic-Collage



Why does this matter?

All this science matters because it helps us understand the world around us. All of life is matter, so if we don't understand matter, you won't understand how the world works. Understanding matter also helps with school and your job. Matter is tremendously important.

References

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