

Lesson - SPS02C

Physical and Chemical Changes

Get Ready to Learn!

Things change

- Ice melts
- Candles burn

Why is this important?

Things change in different ways

Physical Change

- The way they look or feel
- Nothing new is made

Chemical Change

- Rearrange their atoms
- make something new

Do You Know?

Chemistry

- The study of matter and the changes it undergoes

Physical Properties

- Melting ice
- Nothing new

Chemical Properties

- Forming atoms into a new substance

Use the included slides from the Google PowerPoint and the video.

What is important to know about physical and chemical change?
Matter is identified by several physical properties

- Smell
- Color
- Temperature
- State (Solid, Liquid, Gas)
- Volume
- Mass
- Density
- Texture

Gas Liquid Solid

What is important to know about physical and chemical change?
Physical Changes

- Ice
- Solid-Treberg
- Liquid-Glass of water
- Vapor
- Gas-Invisible (condensed on glass)

What is important to know about physical and chemical change?
Physical Changes

- Water - Ice - Water - Vapor - Water - Ice
- We see physical changes in water all the time.
- Whatever the state solid, liquid, or gas it is still water
- This is the water cycle

The Water Cycle

USGS

What is important to know about physical and chemical change?
Chemical Changes

- New products are created from reaction
- Not usually reversible
- New products are chemically different than original

Use the included slides Google Slides and PowerPoint from the Video.

What is important to know about physical and chemical change?

Chemical Reaction Properties



- ❑ One substance is turned into another.
- ❑ Harder to reverse
- ❑ New substance is formed

What is important to know about physical and chemical change?

Energy

Energy is always involved in physical and chemical changes

- ❑ Thermal energy or heat
- ❑ Electrical energy
- ❑ Chemical energy
- ❑ Mechanical energy
- ❑ Nuclear energy



Why is this important?

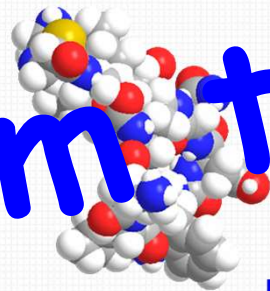
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Physical and Chemical Changes

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