

Describing Matter



What is Chemistry?

- The study of the properties of matter and how matter changes

What is matter?

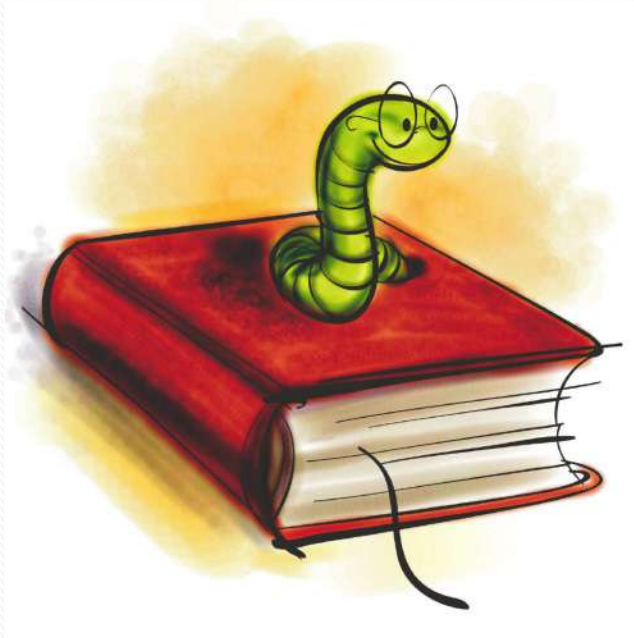
- Anything that takes up space and has mass
- Made up of atoms that vibrate due to kinetic energy

Desk?



Yes!

Book?



Yes!

Person?



Yes!

Thoughts?



No

Water?



Yes!

Light?



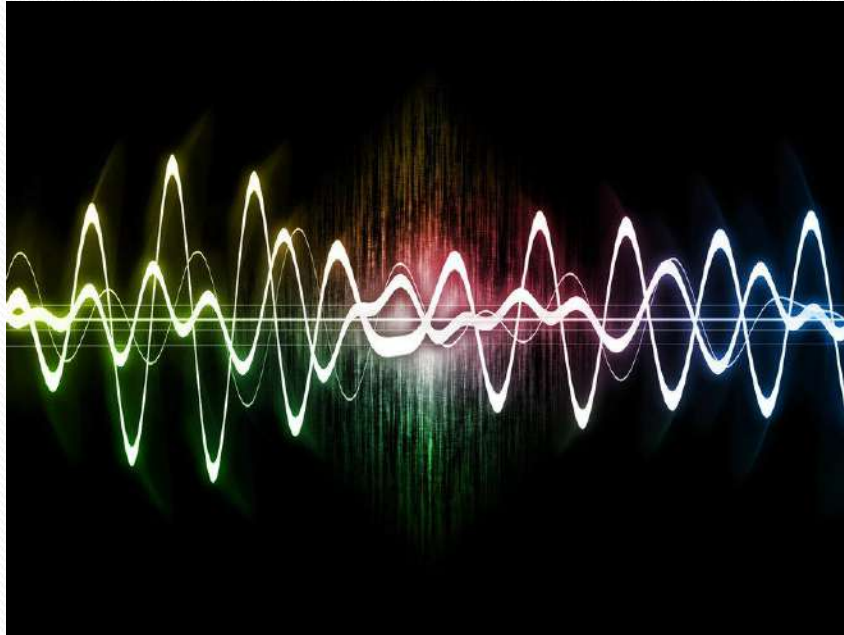
No

Air?



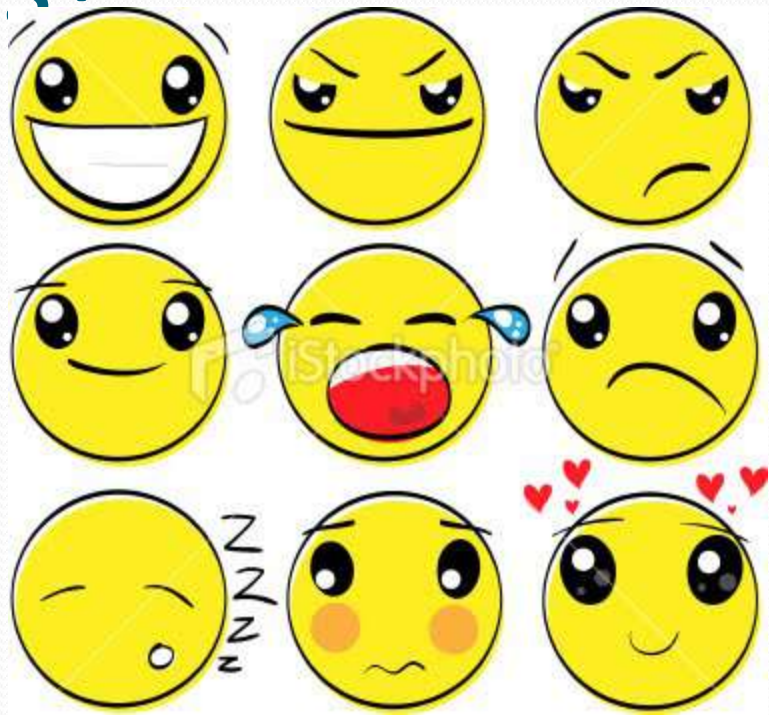
Yes!

Sounds?



No

Emotions?



No

Examples of Matter

- Book
- Desk
- Person
- Air
- Water

Non-examples of Matter

- Light
- Sound
- Thoughts
- Emotions



Physical Properties of Matter


- Characteristic of a substance that can be observed without changing it into another substance.

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- Texture
 - Smell
 - Taste
 - Color
 - Flexibility
 - Hardness
 - Weight

- Freezing point
- Melting point
- Boiling point
- Ability to dissolve (solubility)
- State of Matter (s, l, or g)

Chemical Properties of Matter

- Characteristic of a substance that describes its ability to change into a different substance

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- Ability to burn (Flammability)
 - Ability to rust
 - Ability to tarnish
 - Ability to react with other substances (ie: acids)