

Unit 2: Matter, Energy, & Change

Essential Questions:

- What would the universe be like if there were no matter? Energy? (what drives the universe?)
- How are energy and matter related?
- Where does energy in the world?
- How and why does matter change?

Enduring Understandings:

1. It's all about the kinetic energy
 - a. (kinetic energy = particles determine behavior)
 - b. (it's all about the KE)
2. Matter is always conserved in physical and chemical changes
 - a. LOOOOO (the particles are always there)
3. Indirectly drives change (things change until they can't)
4. Systems seek equilibrium (things change until they can't)
5. Matter do not act as good thermometers (our hands are bad)
6. Some changes are physical, some changes are chemical, some changes are huge scale, some changes are small scale.
7. Objects can possess and transfer energy
8. **Energy is the currency of the universe**

Additional Big Ideas (Depth in Progress):

- What would the universe be like if everything were at a temperature of 0 absolute zero?
- What would the world be like if all the H₂O were now melted?
- (Balance an atom, what would the rest of the planet be like?)

Additional Big Ideas (Depth in Progress):

- all matter change
- H₂O makes a molecule
- (Heat and energy are not the same) (Heat is all motion)
- All matter has change
- (In the universe is direct and some is indirect)
- Energy has many forms
- Particles attract and repel
 - They're attracted, but push and repulsion
- Energy drives matter to its state of matter
- Exchange of energy causes exchange of matter
- Different matter has different forms
- Energy transfers as heat
- In the change, matter and energy change a lot
- Phase changes are a few ways that about
- Indirect process

Unit 3: Matter & Interactions

Essential Questions:

1. In what ways can matter change? In what ways does it remain the same?
2. What would life be like if we could create and destroy matter?
3. What drives a chemical reaction?
4. How can data, systems, and interactions be modeled?

Enduring Understandings:

as above but

Additional Ideas (Depth in Progress):

- Can matter change?
- Why would we want to destroy and regenerate matter?
- How can data be modeled?
- Why are the atoms always there?
- What if we could create or destroy matter?
- Why/How/Change of matter, matter, and energy?
- What interactions behavior?

Additional Ideas (Depth in Progress):

- Chemical interactions are not
- When two interactions meet, both change, or both stay the same

Essential Questions Physical Science

John L. Rudolph



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