

Unit 2: Matter, Energy, & Change

Essential Questions:

- 1. What would the universe be like if there were no matter? Energy? (what drives the universe?)
- 2. How are energy and matter related?
- 3. Where does energy in the world?
- 4. 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. Indicators drive 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 here)
6. Some changes are physical, some changes are chemical, some changes are huge, some changes are small scale.
7. Objects can possess and transfer energy
8. **Energy is the currency of the universe**

Additional Big Ideas (Depth or Perspective)

- 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 methane?
- (Balance is good, what would the rest of the planet be like?)

Additional Big Ideas (Depth or Perspective)

- all matter change
- H₂O makes a difference
- (Heat and energy are of the same thing/just different)
- All matter has change
- (In the evidence is direct and some is indirect)
- Energy has many forms
- Particles attract but move
 - They're attracted, but push and repel
- Energy drives matter to its state/more
- Exchange of energy causes exchange of matter
- Different solids are different forms
- Energy transfers as heat
- In the change, matter, matter change a lot
- Phase changes are a few way that about
- Indirect perspective

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 or Perspective)

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

Additional Ideas (Depth or Perspective)

- Chemical interactions are good
- When two interactions meet, both change or better say the same

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