

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

Additional Big Ideas (Depth in Progress):

- all matter change
- H₂O makes a difference
- (Heat and energy are all over the place/just all 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 spread out
- Energy characteristics in the universe
- Exchange of energy causes exchange in matter
- Various solids are relative forms
- Energy transfers as heat
- In the change, matter, matter change a lot
- Phase changes are a few ways that about
- Indirect measurement

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 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 in Progress):

- Chemical interactions in the world
- When two substances meet, both change or neither change the same

Essential Questions Physical Science

R Barnett



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