

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 absolute zero?
- What would the world be like if all the H₂O were now matter?
- Balance an atom, what would the rest of the planet?

Additional Big Ideas (Depth in Progress):

- all matter change
- H₂O makes a molecule
- Chemical and physical are not (things change all the time)
- All matter has change
- In the evidence of matter and energy in nature?
- 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
- Chemical and physical are not
- Energy transfers as heat
- In the change, matter and energy change a lot
- Phase changes are a very big deal about
- Indicate your system?

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, matter?
- What interactions behavior?

Additional Ideas (Depth in Progress):

- Chemical interactions in nature
- When two interactions meet, both change, or both stay the same

Essential Questions Physical Science

R Barnett



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