

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. L O O O O O (the particles are always there)
3. Imbalance 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 here)
6. Some changes are physical, some changes are chemical, some changes are both, some changes are small 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 absolute zero?
- What would the world be like if all the H₂O were ever melted?
- If there was one, what would the year 2016 of our planet?

Additional Big Ideas (Depth in Progress):

- all states change
- H₂O makes a system
- Chemical energy can be used (batteries, gas, oil, etc.)
- All matter has energy
- Some evidence is direct, and some is indirect
- Energy has many forms
- Matter has different but same
 - They're attracted, but not all are identical
- Energy drives motion, but not all are the same
- Exchange of energy causes exchange of matter
- Chemical and nuclear reactions
- Energy transfer is fast
- Some change is small, some change is big
- Phase changes are a few very fast 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 Big 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 build things if they would fall apart?
- What determines behavior?

Additional Big Ideas (Depth in Progress):

- Chemical energy can be used
- When two substances meet, both change or neither for the same

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