

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 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 ice?
- Balance is good, what would the rest of the world be?

Additional Big Ideas (Depth or Perspective)

- all matter change
- It's all matter is matter
- Change and conservation of matter (things change all the time)
- All matter has change
- In the universe is matter and energy is matter?
- Energy has many forms
- Matter has different kind of matter
 - They're different, but both are different
- Energy changes matter, but matter has
- Exchange of energy causes exchange of matter
- Material world is relative to matter
- Energy transfers as heat
- In the change, matter, matter change is big
- Phase changes are a very big deal about
- Indicators are different

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 or Perspective)

- Can matter change?
- Why would we want to destroy and regenerate matter?
- How can data be modeled?
- Why are the matter always there?
- What if we could create or destroy matter?
- Why would things change if they were all equal?
- What interactions behave?

Additional Big Ideas (Depth or Perspective)

- Chemical interactions are matter
- When two interactions meet, both change, or both stay the same

Essential Questions Physical Science

Lei Huang



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