Heat and the Environment: Unit Check-In

**Assignment** | **Due** | **Have I handed it in?**
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Lesson 1: Paint for the Planet Assignment  
*Artistic representation of climate change* | May 13 |  
Lesson 2: Forms of Energy Comic  
*Comic strip showing types of energy* | May 14 |  
Lesson 3: Energy Transformation Concept Map  
*A look at how energy can be transformed* | May 15 |  
Lesson 4: Heat Flow Clothing  
*A design for climate-controlled clothing* | May 21 |  
Lesson 5: Heats Effect on State Skits  
*Particle Theory Skits* | May 22 |  
Lesson 6: Melting Away Lab  
*Lab report sheet* | May 23 |  
Lesson 7: Conduction, Convention, Radiation Posters  
*Poster showing one type of heat glow* | May 26 |  

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**Our Unit Check-in Quiz will be on:** _______________________________

**Key Ideas:**

- There are different forms of energy, divided into potential (stored) and kinetic (moving) energy.
- Thermal energy is the total energy of all the moving particles in a solid, liquid or gas. *The more moving particles, the greater the thermal energy*
- Energy can be transformed from one type of energy to another. For example, chemical energy from food can be transformed into thermal energy to help heat our bodies.
- Insulators keep heat in, conductors allow heat to flow.
- Climate change is altering the weather and seasonal temperatures around the world.
- Particle Theory plays an important role in heat flow and changes of state