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Thermal Energy and Law of Conservation of Energy Study Guide

1. What is the difference between thermal energy and temperature?
2. A lake and a pond are both 24°C . Which has more thermal energy and why?

There is more thermal energy in the _____ because _____

3. What is specific heat? What are the units for specific heat? What is the formula for specific heat?

| Definition/Explanation | Formula | Units |
|------------------------|---------|-------|
| | | |

a) How much energy is needed to raise .25 kg of glass by 5°C ?

| Material | Specific Heat Value |
|----------|---------------------|
| Glass | 664 |
| Sand | 670 |
| Water | 4180 |
| Silver | 235 |

c) How much energy is needed to raise 500 kg of sand by 10°C ?

b) How much energy is needed to raise 1 kg of water by 3°C ?

d) How much energy is needed to raise .2 kg of silver by 100°C ?

e) What is the specific heat of a substance that requires 150,000 J of energy to raise a mass of 25 kg by 75°C ?

4. What are the 4 main phases of matter? Describe the molecular motion and particle arrangement of each.

| Phase of Matter | Molecular Motion | Particle Arrangement |
|-----------------|------------------|----------------------|
| | | |
| | | |
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