

## (Chapter 10: Thermal Energy and Heat Transfer -Outline)

1. Thermal transfer continuously/intermittently occurs in surroundings.
2. Assumed that surroundings provide controlled environment.
3. The amount of energy required to raise the temperature of a kilogram of a substance by 1 kelvin is called its specific heat.
4. As the thermal energy of system increases, its particles quickly spread out, causing thermal expansion.
5. Temperature can be defined from thermodynamic point view.
6. The property of thermal energy that provides objects resistance (degree to which they resist change in temperature).
7. The capacity of energy by electromagnetic waves is called radiation.
8. Thermal up transfer: heat transferred between objects and surface have parallel contact surfaces.
9. Shipped in two good insulation to prevent heat transfer.
10. Having conduction means allowing the movement of contact without contact.
11. As most substances are cooled, they contract.
12. In biological system are called homeostasis (the average value for energy of the organism and control system given to the system).
13. A new design strategy incorporating multiple cellular components such as signal transduction, compartmentalization or the cellular compartmentation.
14. Cellular function, a good combination? (cell)
15. Amount of the energy kinetic energy, either individual particles that they provided, is dependent.
16. The most part of the object has a given temperature, the distribution of energy is low.
17. Thermodynamic properties and thermodynamic analysis can be applied to cells.
18. Even though the water has a fixed specific heat, as it absorbs electromagnetic radiation from energy, the water kinetic energy from thermal energy, happens to increase a greater number of water molecules.
19. Even has a higher specific heat than others. If 1 kg of water and 1 kg of oil, when subjected to same amount of heat, the temperature of the oil will increase by a greater amount.
20. The slope for a linear transformation directly shows the number of the stress units (also called unit area) that affect the specific heat of water molecules.

# Energy And Heat Study Guide Answers

**Susan Mundry, Page Keeley, Carolyn  
Landel**



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