THE MECHANICAL UNIVERSE Video 47 - Entropy

Name:	
Class:	

1.	Briefly state the 4 laws of thermodynamics:

- 2. Is thermal equilibrium easy or hard to find in the real world?
- 3. Which direction does heat flow?
- 4. The existence of any engine works on what principle?
- 5. As a falling body bounces, where does all the energy of motion eventually go?
- 6. What is the name of the most efficient engine possible?
- 7. In addition to conserving energy, what else is conserved in an ideal engine?
- 8. The state of equilibrium is also the state of maximum ______.
- 9. Is water at a higher or lower state of entropy compared to ice?
- 10. Explain what is meant by the "heat death" of the universe?
- 11. Explain how entropy defines the flow of time itself: