1. **Answer the questions to the text:**
2. Thermodynamics is the study of the relationships between heat, work, and energy.
3. Thermodynamics is used in physics, chemistry, biology and other Sciences
4. physical life itself can be described as a continual thermodynamic cycle of transformations between heat and energy
5. these transformations are never perfectly efficient, as the second law of thermodynamics shows.
6. Nor is it possible to get "something for nothing," as the first law of thermodynamics demonstrates: the work output of a system can never be greater than the net energy input.
7. you can't create a perpetual motion machine
8. Internal combustion engine and refrigerator
9. It can be described by specifying its properties, such as pressure, temperature, or chemical composition
10. predict the equilibrium state of the system.
11. **Insert a preposition or a conjunction if necessary:**
12. As
13. Between
14. Than
15. of
16. as
17. to
18. by
19. –
20. **Insert a necessary word or word combination:**
21. Thermodynamics
22. Equilibrium
23. external constraints
24. perpetual motion machine
25. transformations
26. physical system
27. internal combustion engine
28. predict
29. efficient
30. output
31. application