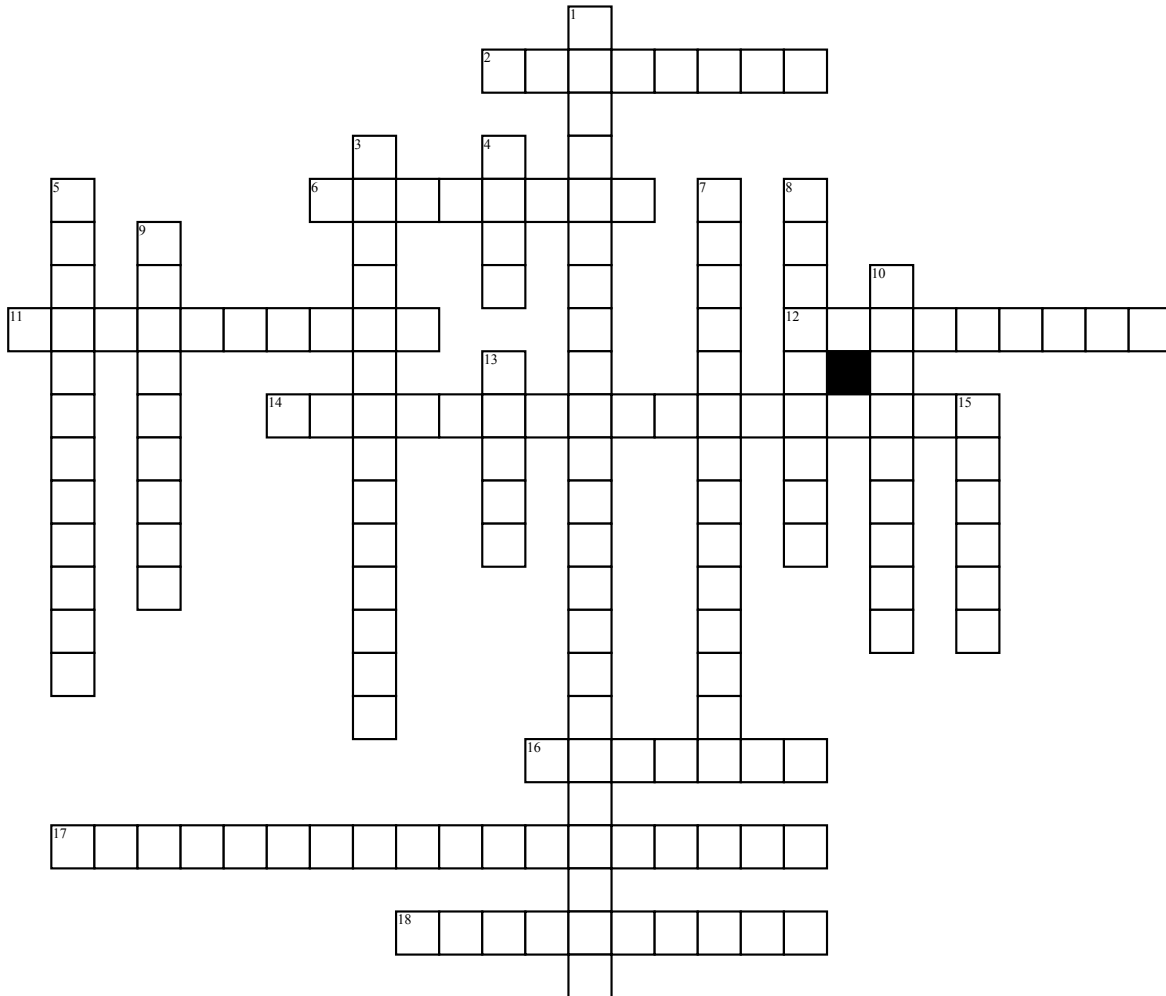


# THERMODYNAMICS : CHAPTER 1



## Across

2. \_\_\_\_\_ is separates the system from surroundings.

6. A process that takes place at constant pressure.

11. A process that takes place at constant temperature.

12. The concept of \_\_\_\_\_ is used in macroscopic approach of thermodynamics not in microscopic approach.

14. A control volume may involve one or more forms of work at the same time.

16. \_\_\_\_\_ is a transition from one state to another state

17. A specific condition of a system is in determined by its properties.

18. Can exchange energy and matter.

## Down

1. A process in which each intermediate state only infinitesimally removed from the equilibrium.

3. Nothing crosses the boundary.

4. \_\_\_\_\_ is defined as the series of states through which a system passes during a process.

5. Can exchange energy(as heat or work) but not matter,with it surroundings.

7. \_\_\_\_\_ is the given number of properties to a thermodynamics system in a state of equilibrium.

8. A process that takes place at constant volume.

9. \_\_\_\_\_ varies directly with the mass.

10. \_\_\_\_\_ is the independent of the amount of mass.

13. A system returns to initial state.

15. A quantity of matter.