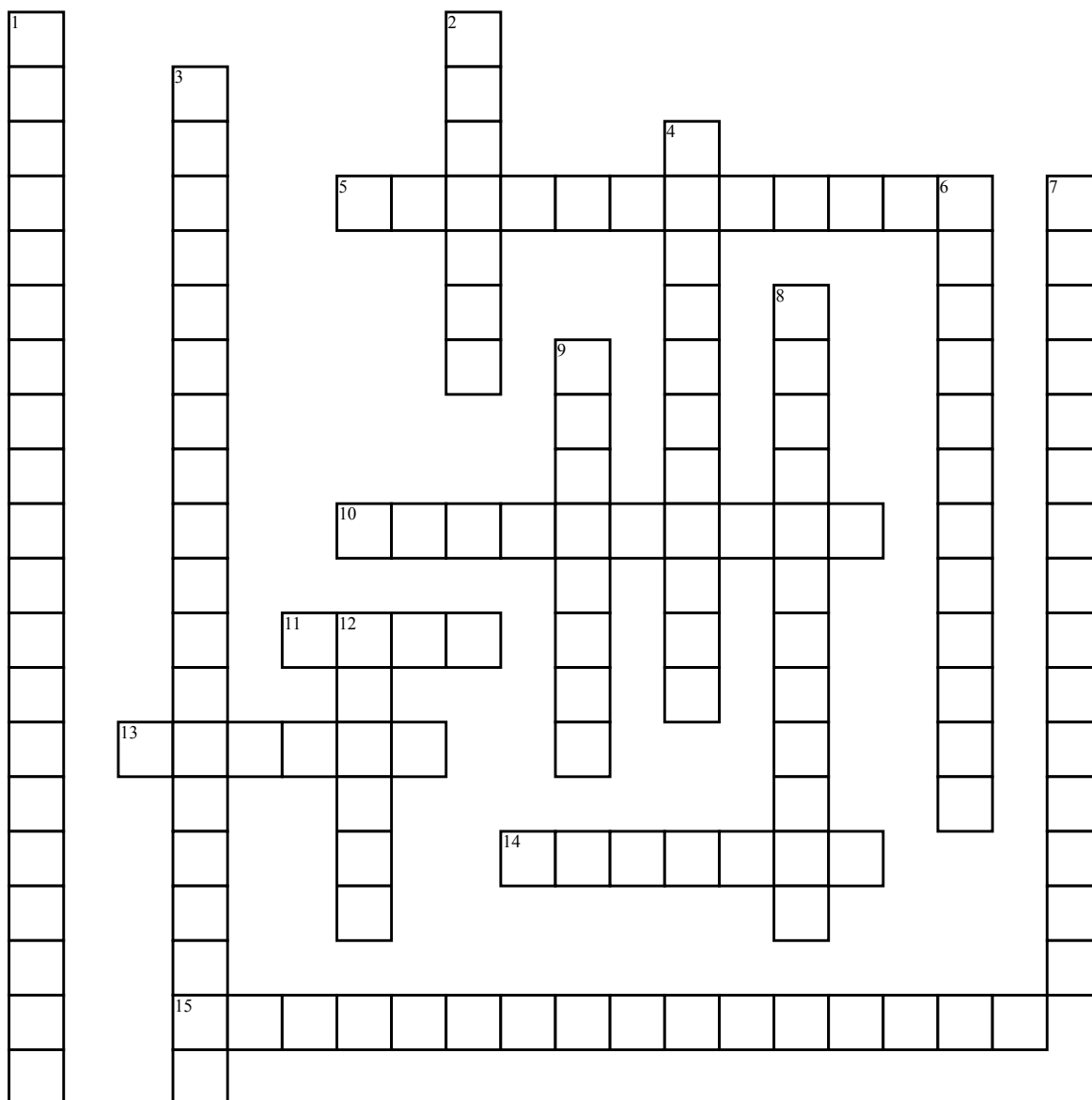


Name: _____ Date: _____ Period: _____

Thermochemistry



Across

5. the rest of the universe that isn't reacting

10. a reaction that releases heat energy

11. a form of energy arising from the random motion of the molecules of bodies, which may be transferred by conduction, convection, or radiation

13. the specific portion of the universe that is being studied

14. The energy change accompanying any transformation is the same whether the process occurs in one step or many

15. process that involves rearrangement of the molecular or ionic structure of a substance

Down

1. law: energy cannot be created or destroyed in an isolated system

2. the degree of disorder or randomness in the system

3. the entropy of any isolated system always increases

4. a reaction that absorbs heat energy

6. the heat required to raise the temperature of the unit mass by one degree

7. branch of chemistry concerned with the quantities of heat evolved or absorbed during chemical reactions

8. The energy change accompanying any transformation is equal and opposite to energy change accompanying the reverse process

9. thermodynamic quantity equivalent to the total heat content of a system

12. the ability to do work