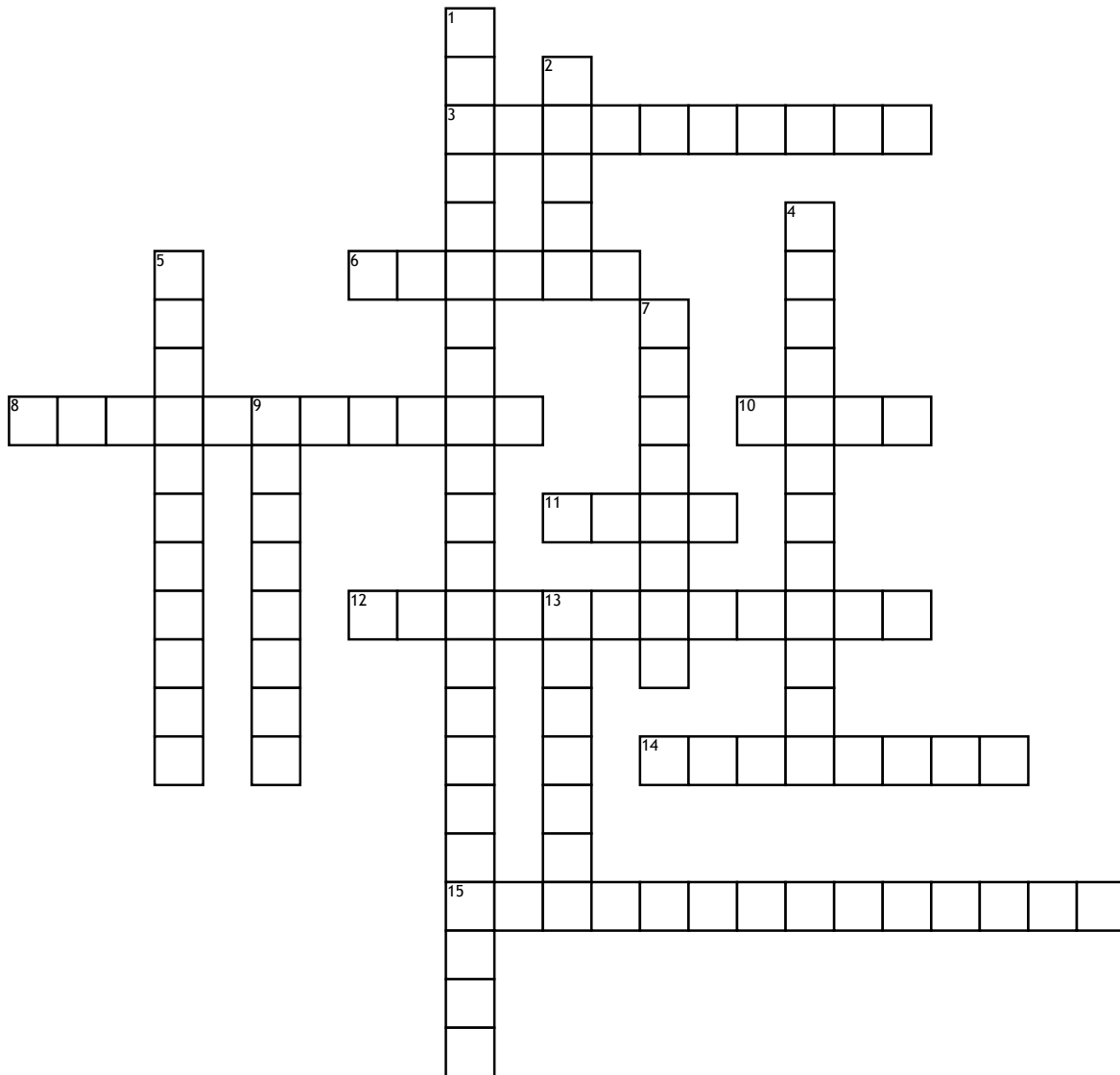


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Thermochemistry



## Across

3. heat out  
 6. a system which allows the exchange of heat but does not allow the exchange of matter  
 8. a device used to measure the heat released or absorbed by a physical or chemical process  
 10. the energy transferred when an object is moved by a force  
 11. thermal energy

12. the quantity of heat required to change the temperature of an object by 1 K  
 14. the enthalpy change of an overall process is the sum of the enthalpy changes of its individual steps  
 15. the law of conservation of energy is also known as the first law of \_\_\_\_\_.

## Down

1. a balanced equation that includes the enthalpy change of the reaction  
 2. the SI unit for energy

4. everything around the system  
 5. heat in  
 7. A thermodynamic variable which is defined as the internal energy plus the product of pressure and volume  
 9. a system which does not allow an exchange of heat and matter with the surroundings  
 13. an older unit defined originally as the quantity of energy needed to raise the temperature of 1 gram of water by 1 degree Celsius