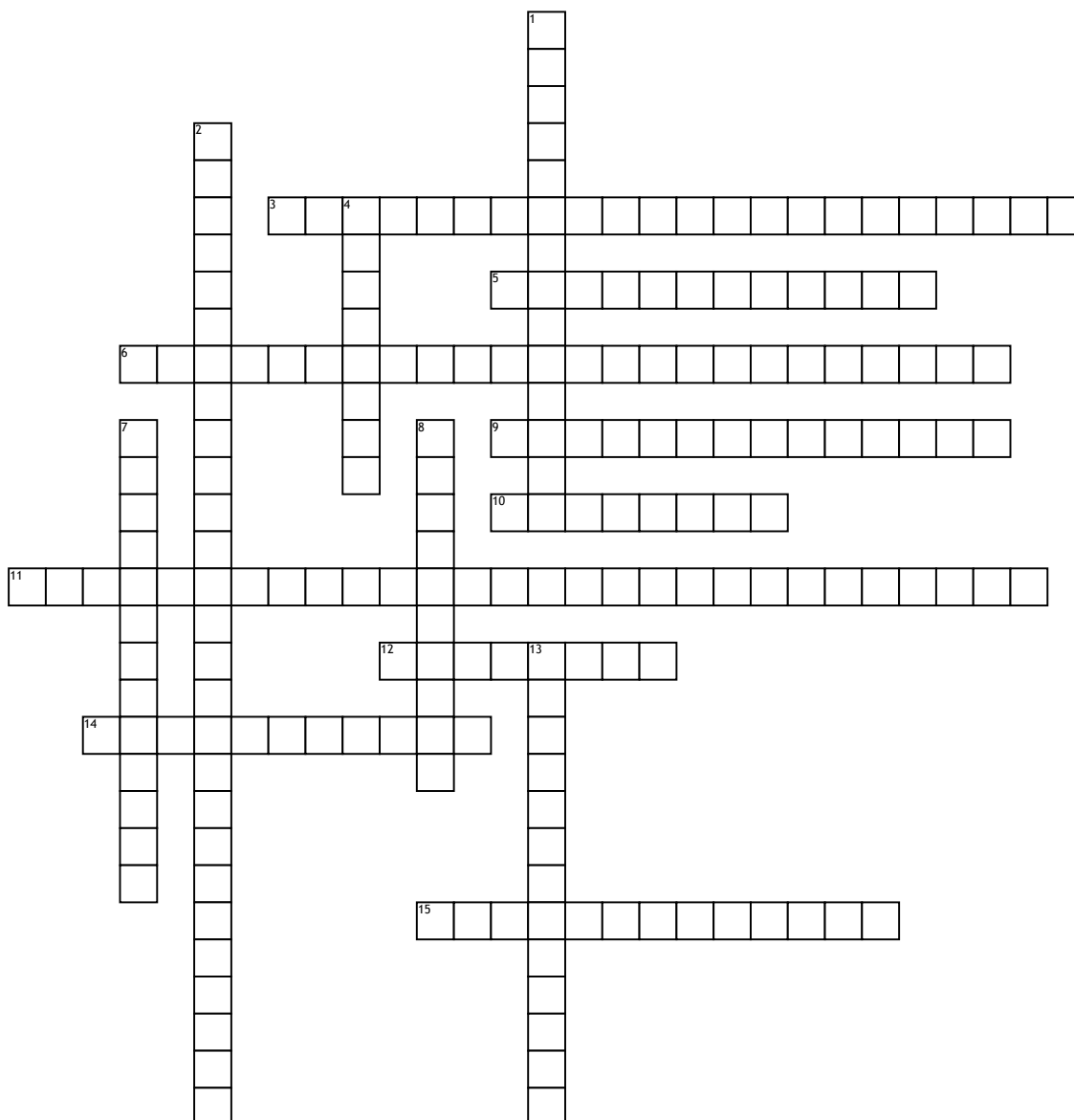


Enthalpy



Across

3. the science that deals with heat, work and other forms of energy in the context of chemical or physical processes
 5. compounds containing only hydrogen and carbon
 6. internal energy of systems changes through heat flow or work
 9. the total of all kinds of energy present in a substance

10. if a process can be written as the sum of several stepwise processes, the enthalpy change of the total process equals the sum of the enthalpy changes of the various steps
 11. enthalpy change of 1 mole burning under standard conditions
 12. q_p is the heat of a reaction at constant...
 14. the system absorbs energy
 15. a set of conditions used as a reference point for determination of properties under certain conditions

Down

1. heat is released or absorbed under constant pressure
 2. 1 mole of pure substance is formed from free elements
 4. the sum of a systems internal energy, property used to describe thermodynamics of chemical and physical processes
 7. type of work when a system pushes back the surrounding against a restraining pressure
 8. the system releases energy
 13. internal energy is an example of...