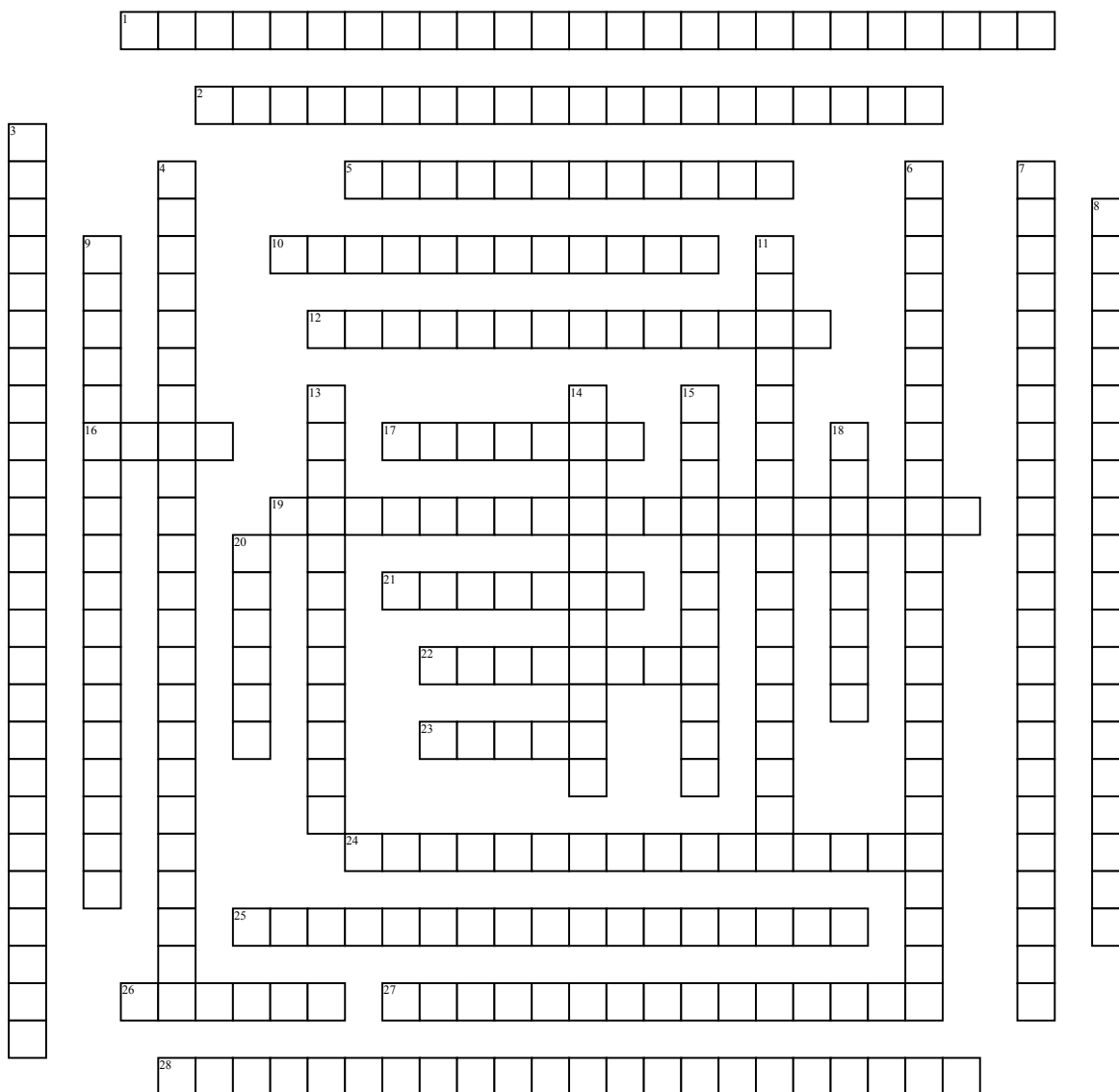


CHEM VOCAB



Across

1. the heat in joules or calories released by 1 mole of a substance as it changes from a liquid to a solid at the solids melting point
2. the heat in joules or calories released or absorbed by 1 mole of a substance as it dissolves in water to produce 1 liter of a 1 molar solution
5. the remainder of the universe that is outside the system
10. the quantity of heat in joules or calories required to raise the temperature of 1 g of a substance
12. the heat released or absorbed during a chemical reaction
16. the energy that is transferred from one body to another because of temperature difference
17. in going from a particular set of reactants to a particular set of products the enthalpy change is the same whether the reaction takes place in one step or a series of steps

19. the change in enthalpy for a reaction in which one mole of a compound is formed from its constituent elements
21. the quantity of heat that raises the temperature of 1 g of pure water
22. all existing matter and space considered as a whole
23. the SI unit of energy
24. the heat released during a chemical reaction in which one mole of a substance is completely burned
25. the energy in kilojoules required to melt 1 mole of a solid
26. the capacity for doing work
27. the study of heat changes in chemical reactions
28. a chemical equation that includes the amount of heat produced or absorbed during the reaction

Down

3. energy is neither created nor destroyed in an ordinary chemical or physical process
4. the energy in kilojoules required to vaporize 1 mole of a liquid

6. energy stored within the structural units of chemical substances
7. the heat in joules or calories released by 1 mole of a substance as it changes from a vapor to a liquid at the liquids boiling point
8. 11.1
9. a heat absorbing process
11. a heat dissipating process
13. the quantity of heat required to change an objects temperature difference
14. a device for measuring heat changes
15. the measurement of heat changes for physical and chemical processes
18. the heat content of a system at constant pressure
20. any part of the universe upon which attention is focused