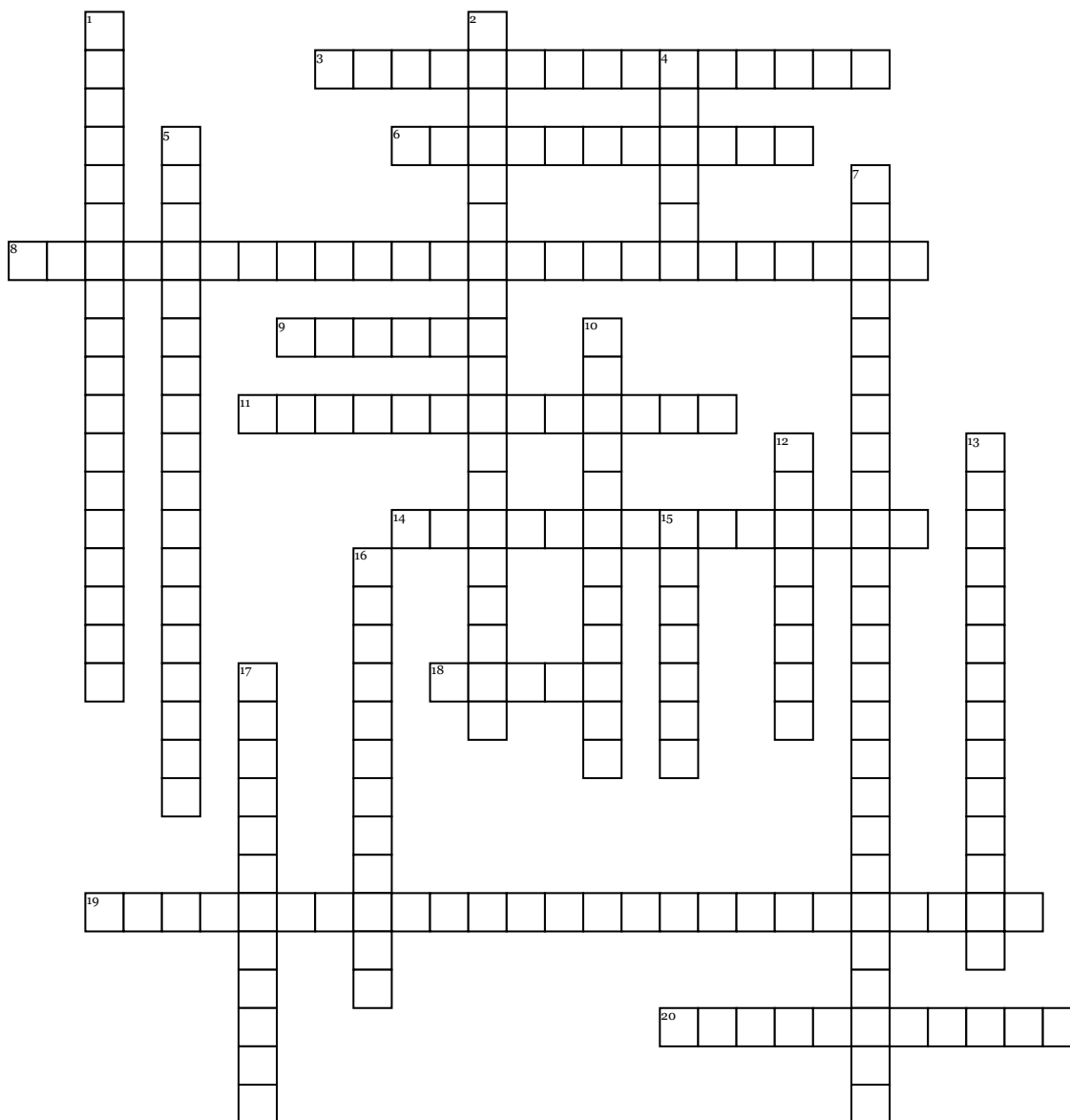


Name: _____

Chemistry



Across

- 3.** energy associated with the position of an object relative to a force upon it
6. able to occur without continuing outside help
8. law is a practice application of the law of conservation of energy
9. portion of the universe or the sample of matter being studied
11. is energy associated with motion destroyed
14. the total amount of heat liberated or absorbed between the start of a reaction and its end, where all products are original temperature

18. the SI unit of energy and energy transfer

19. that energy can neither be created nor destroyed

20. device for measuring heat flow

Down

- 1.** chemical reactions release energy that was stored in the chemical bonds of the reactants
2. energy absorbed into the reacting substances and stored in the chemical bonds of the products
4. considered the ability to do work
5. the amount of heat per unit mass required to vaporize a substance at its normal boiling point

7. the entropy of the universe is increasing

10. the heat required to cause a unit rise in the temperature of a unit mass of the substance

12. as the internal energy plus the product of the pressure and volume

13. the sum of all the possible forms of energy of all the ions, atoms, and molecules

15. a measure of the disorder or randomness in a system

16. the remainder of the universe

17. heat per unit mass required to melt a substance at its melting point