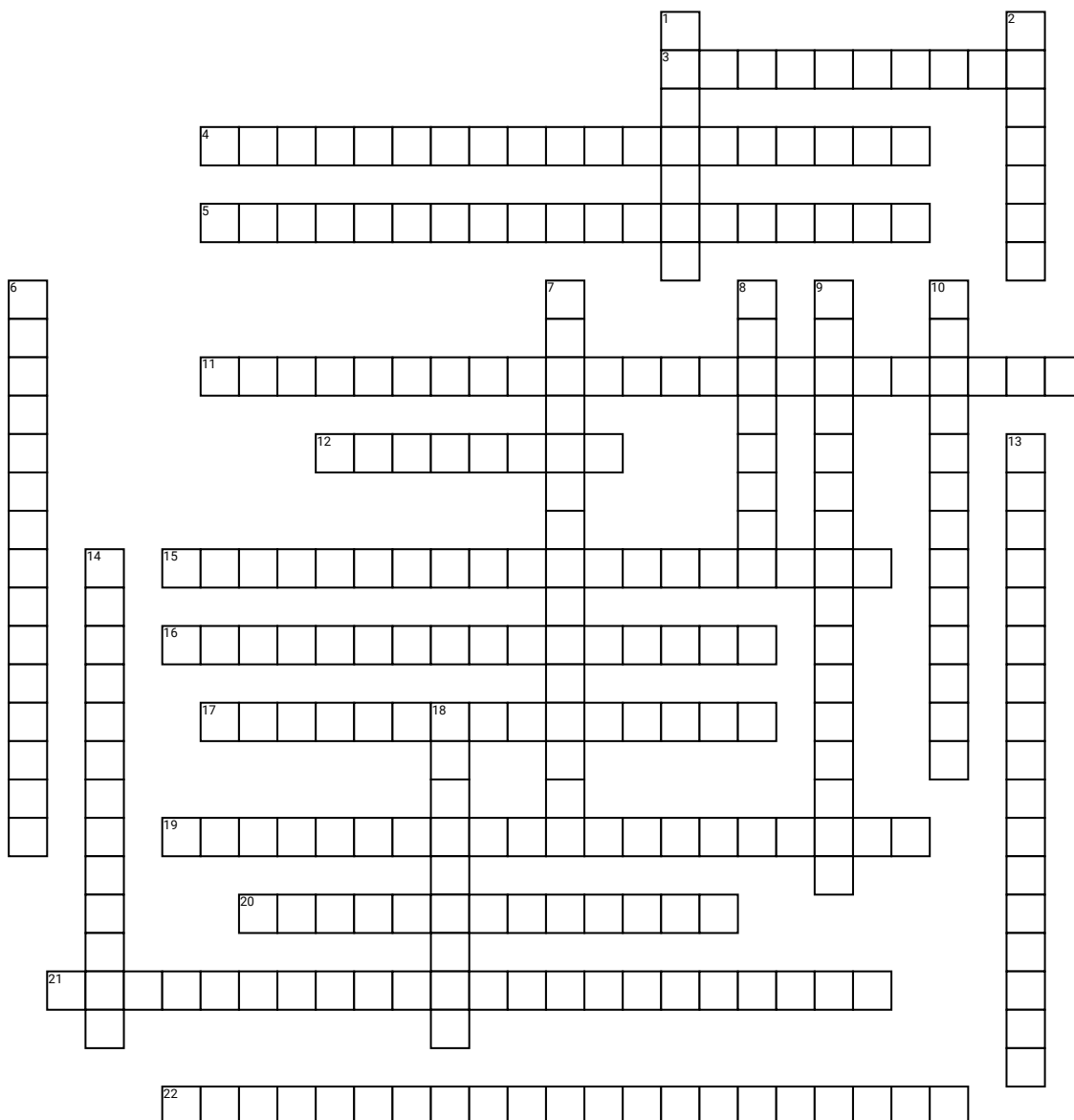


# Chemistry Chapter 14



**Across**

- 3. The collection of one substance on the surface of another
- 4. When all the reactants and products of a reaction are in the same phase
- 5. In the same phase as the reactants or in solution with a reactant.
- 11. Each reaction has this experimentally determined
- 12. Present during the reaction, but it is neither a reactant nor a product.
- 15. The step that limits how fast the reaction will occur
- 16. The study of how the human body processes medication

- 17. Must be properly oriented for the necessary rearrangement of atoms and electrons
- 19. The energy necessary to jump-start a reaction
- 20. How fast reactants change into products
- 21. Reactions in which the reactants are in different phases
- 22. A catalyst that is in a separate phase from the reactants

**Down**

- 1. An equation that mathematically describes how fast a reaction occurs
- 2. Large proteins responsible for most of the essential biochemical reactions

- 6. Made up of the individual elementary steps
- 7. Can go in either direction
- 8. The study of the rates of reactions and the steps by which they occur
- 9. A theoretical, transitional structure between reactants and products
- 10. Do not appear in the net chemical equation
- 13. The series of steps that make up a reaction
- 14. Indicates how the rate of a reaction is affected by a specific reactant's concentration
- 18. A substance used to reduce a catalyst's undesirable effects