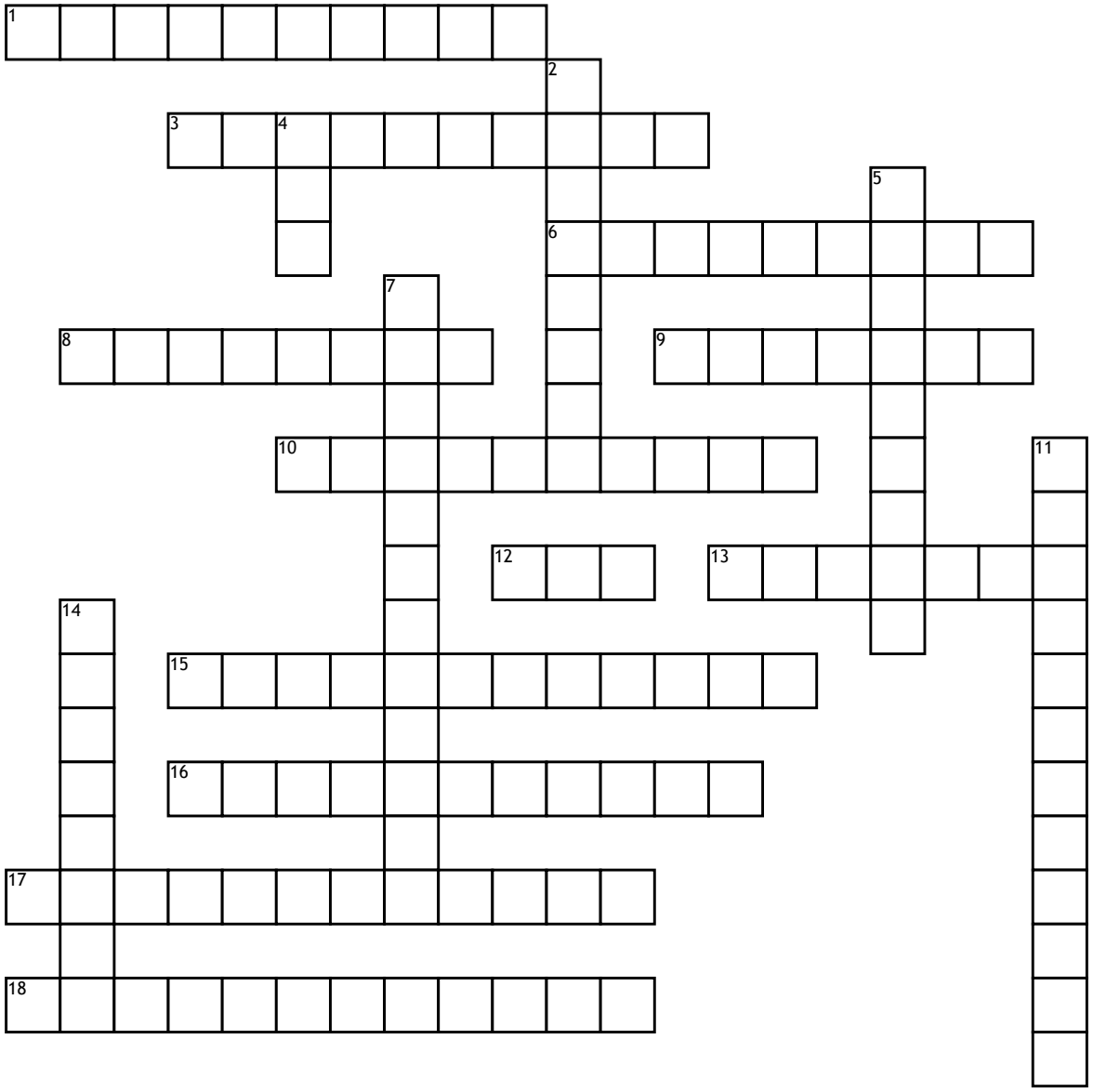
Name: _____ Date: _____

⬜⬜ ⬜⬜⬜⬜⬜⬜⬜⬜⬜⬜ ⬜⬜⬜⬜⬜⬜⬜⬜ ⬜⬜ ⬜⬜⬜⬜⬜⬜Three-Dimensional Stru



Across

1. Proteins that assist in the correct folding or refolding of polypeptides

3. An arrangement of a polypeptide chain that maximizes the use of internal hydrogen bonding

6. The arrangement of multiple segments in beta conformation

8. Protein found in connective tissue (tendons, cartilage, etc)

9. Proteins consisting of polypeptide chains arranged in strands or sheets

10. The level of arrangement of protein subunits

12. Torsional angle between the alpha carbon and nitrogen in an amino acid

13. Protein produced by insects and spiders in the production of silk

15. Protein essential to mammal hair, wool, claws, etc.

16. Formation of a polypeptide requires the formation of a

17. Main inventor of the plot used to predict dihedral phi and psi angles

18. Protein residues that favor the middle of the protein, away from water are characterized as

Down

2. Proteins consisting of polypeptide chains folded into spherical shapes

4. Torsional angle between the alpha carbon the carboxyl carbon in an amino acid

5. The spatial arrangement of amino acid residues

7. The process in which the three-dimensional structure of a protein is lost

11. The process in which a protein regains its native structure

14. The level of arrangement of all atoms in a protein