

## MACROMOLECULE WORKSHEETS



## Part A. Classify each as a carbohydrate, protein, or lipid

- |                        |             |                        |                 |
|------------------------|-------------|------------------------|-----------------|
| 1. <u>carbohydrate</u> | Starch      | 6. <u>protein</u>      | Saturated fat   |
| 2. <u>lipid</u>        | Cholesterol | 7. <u>carbohydrate</u> | Polyptide chain |
| 3. <u>carbohydrate</u> | Steroid     | 8. <u>carbohydrate</u> | Polysaccharide  |
| 4. <u>protein</u>      | Glycogen    | 9. <u>lipid</u>        | Phospholipid    |
| 5. <u>lipid</u>        | Enzyme      | 10. <u>lipid</u>       | Glycerol        |

## Part B. Identify the specific molecule (use the above terms) from each description. Some terms may be used more than once.

- |                         |                                                  |
|-------------------------|--------------------------------------------------|
| 11. <u>lipids</u>       | Provides long-term energy storage for animals    |
| 12. <u>carbohydrate</u> | Provides immediate energy                        |
| 13. <u>protein</u>      | Monomer of proteins                              |
| 14. <u>carbohydrate</u> | Provides long-term energy storage for plants     |
| 15. <u>lipids</u>       | Steroid that makes up part of the cell membranes |

## Part C. Which specific molecule (saturated fat, unsaturated fat, protein, glucose, starch, cellulose) is each food mostly made of?

- |                      |           |                            |              |
|----------------------|-----------|----------------------------|--------------|
| 16. <u>cellulose</u> | Spinach   | 19. <u>glucose</u>         | Orange juice |
| 17. <u>protein</u>   | Egg white | 20. <u>unsaturated fat</u> | Sesame Oil   |
| 18. <u>starch</u>    | Noodles   |                            |              |

## Part D. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if...

21. ...you needed a quick boost of energy? monosaccharide
22. ...you wanted to grow healthy hair? protein
23. ...you had a race tomorrow afternoon? polysaccharide
24. ...you wanted to get bigger muscles? protein
25. ...your next meal will be in a week? lipid

## Part E. Short Answer questions

26. What is the relationship between glucose, fructose, and galactose?  
They are isomers of one another - They have the same chemical formula but differ in how those elements are bonded to each other within the molecule.
27. What are the structural differences between a saturated and an unsaturated fat?  
Unsaturated fats have a double bond between at least two carbons in the fatty acid tail and those same carbons have only a single hydrogen bonded to each.
28. Explain how polymers are related to monomers.  
Polymers are comprised of monomers.



# Questions On Macromolecules

**Simon A. Levin**



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