

MACROMOLECULE WORKSHEETS

1	Starch	6	Saturated fat			
2	Cholesterol	7	Polypeptide chain			
3	Steroid	8	Polysaccharide			
4.	Glycogen	9	Phospholipid			
5.	Enzime	10.	Glycerol			
	dentify the specific mo on. Some terms may be		above terms) from each an once.			
1	Provides long	g-term energy s	torage for animals			
2	Provides imm	 Provides immediate energy				
3.		Monomer of proteins				
4.		Provides long-term energy storage for plants				
5.			of the cell membranes			
Part C. W	•		, unsaturated fat, protein			
1	tarch, cellulose) is eac	•				
		19.	Orange juice			
6	Spinach					
	Spinach Egg white	20.	Sesame Oil			

protein) would you eat if...

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

Part E. Short Answer questions

- 26. What is the relationship between glucose, fructose, and galactose?
- 27. What are the structural differences between a saturated and an unsaturated fat?
- 28. Explain how polymers are related to monomers.

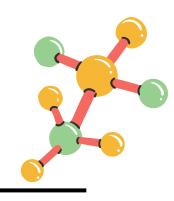




KEY ANSWER



MACROMOLECULE WORKSHEETS



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

1.	carbohydrate	_Starch	6. _	protein	Saturated fat
2.	lipid	_ Cholesterol	7. _	carbohydrate	Polypeptide chain
3.	carbohydrate	Steroid	8.	carbohydrate	Polysaccharide
4.	protein	- _Glycogen	9.	lipid	Phospholipid
5 .	lipid	_ Enzime	10.	lipid	Glycerol

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

11.	lipids	Provides long-term energy storage for animals
12.	carbohydrate	Provides immediate energy
13.	protein	Monomer of proteins
14.	carbohydrate	Provides long-term energy storage for plants
15.	lipids	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.	cellulose	Spinach	19.		Orange juice
17.	protein	Egg white	20.	unsaturated fat	Sesame Oil
18.	starch	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.



