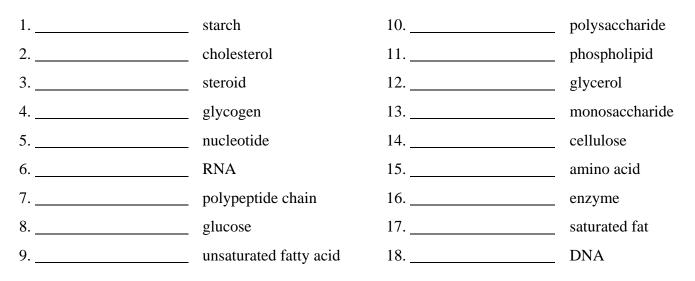
## Macromolecules Worksheet #2 Chapter 2 Section 3

## Name \_\_\_\_\_

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



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

17	_ provides long-term energy storage for animals
18	_ instructions for building proteins
19	_ provides immediate energy
20	_ sex hormones
21	_ provides short-term energy storage for plants
22	_ animal and plant structures
23	_ forms the cell membrane of all cells
24	_ speeds up chemical reactions by lowering activation energy
25	_ one sugar
26	_ cells convert this into ATP
27	_ monomer of proteins
28	_ provides long-term energy storage for plants
29	_genetic material
30	_ steroid that makes up part of the cell membranes
31	_ 3-carbon "backbone" of a fat
32	_ provides short-term energy storage for animals
33	_ many sugars
34	_ monomer of nucleic acids
35	forms the cell wall of plant cells

Per.

**Part C.** Which <u>specific</u> molecule (saturated fat, unsaturated fat, protein, glucose, starch, cellulose) is each food <u>mostly</u> made of?

36	almond	44	celery
37	spinach	45	soy beans
38	beef jerky	46	cranberries
39	bacon	47	egg white
40	noodles	48	table sugar
41	orange juice	49	popcorn
42	cheese	50	lobster
43	wheat	51	sesame oil

Part D. State whether each is found in animals, plants or both.

52	saturated fat	61	glucose
53	protein	62	RNA
54	steroid	63	polysaccharide
55	amino acid	64	glycogen
56	DNA	65	starch
57	cellulose	66	phospholipid
58	monosaccharide	67	enzyme

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

 68. ...you needed a quick boost of energy?

 69. ...you wanted to grow strong nails?

 70. ...you haven't eaten in days?

 71. ...you wanted to grow healthy hair?

 72. ...you had a race tomorrow afternoon?

 73. ...you were getting ready for hibernation?

 74. ...you wanted to get bigger muscles?

 75. ...your next meal will be in a week?