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

2. <u>lipid</u> cholesterol 11. <u>lipid</u> phospho 3. <u>lipid</u> steroid 12. <u>lipid</u> glycerol 4. <u>lab.</u> glycogen 13. <u>lab.</u> monosac	haride
	lipid
1 And alvanger 12 And monages	
4. <u>Carb.</u> glycogen 13. <u>Carb.</u> monosac	charide
5. <u>Protein</u> nucleotide 14. <u>Carlo</u> cellulose	
6. <u>Vulleic Acidl</u> RNA 15. <u>Protein</u> amino ac	id
7. <u>Protein</u> polypeptide chain 16. <u>Protein</u> enzyme	
8. Carb. glucose 17. Lipid saturated	fat
9. Lipid unsaturated fatty acid 18. Nucleic Acid DNA	

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

17.	lipides	_ provides long-term energy storage for animals
18.	Protein - Amino Acids	_ instructions for building proteins
19.	Carb Sugar	_ provides immediate energy
	Upid-Sturoid	
21.	Carb - Storch / Sugar	_ provides short-term energy storage for plants
22.	Protein - Amino Acids	animal and plant structures
23.	lipid - Phospholipid	forms the cell membrane of all cells
24.	Protein - Catalyst	speeds up chemical reactions by lowering activation energy
25.	Corb - monosaccharide	one sugar
26.	Carb-glucose	_ cells convert this into ATP
27.	Protein - Amino Acids	_ monomer of proteins
28.	Corb Storch/Sugar	_ provides long-term energy storage for plants
29.	Nucleic Acids - DNA/RNA	genetic material
30.	Lipid-Chollsterol	steroid that makes up part of the cell membranes
31.	Carb Glycerol	_ 3-carbon "backbone" of a fat
32.	Carb	_ provides short-term energy storage for animals
33.	CWb - Polysaccharide	_ many sugars
	NA Nactootides	monomer of nucleic acids
35.	Carb Cellulose	forms the cell wall of plant cells

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

monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if  68you needed a quick boost of energy?  69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein  Lipid  Protein	36. Storch	almond	44. <u>Cellulos</u> e	celery				
39. ** **Problem** bacon	37. Cellulose	spinach	45. Storch	soy beans				
40. Storch noodles 48. Clause table sugar 41. Clause orange juice 49. Storch popcorn 42. Protein   Saturated cheese 50. Protein lobster 43. Storch whether each is found in animals, plants or both. 52. Painals saturated fat 61. Both glucose 53. Both protein 62. Both RNA 54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Toth monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you had a race tomorrow afternoon? 71you wanted to get bigger muscles?  Protein  1 tiple  1 tiple  1 trotein	38. Protein	beefjerky	46. Guiose	cranberries				
41. Clucost orange juice 49. Storch popcorn 42. Protein   Saturated cheese 50. Protein lobster 43. Starch wheat 51. Assaturated fat sesame oil  Part D. State whether each is found in animals, plants or both.  52. Animals saturated fat 61. Both glucose 53. Both protein 62. Both RNA  54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Toth monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you haven't eaten in days? 71you wanted to grow healthy hair? 72you had a race tomorrow afternoon? 73you wanted to get bigger muscles?  Protein  10bster 10. Protein 10bster 10. Post of the sesame oil 10bster 10. Post of the sesame oil 10bster 10. Post of the sesame oil 10bster 10. Protein 10bster 10. Protein 10bster 10. Protein 10bster	39. Protess	bacon	47. Protesh	egg white				
42. **protech*   Saturated** cheese	40. Storch	noodles	48. Glucose	table sugar				
43. 3trich whether each is found in animals, plants or both.  52. Animals saturated fat 61. Both glucose 53. Both protein 62. Both RNA 54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Both monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you haven't eaten in days? 71you wanted to grow healthy hair? 72you had a race tomorrow afternoon? 73you wanted to get bigger muscles?  Protein  Frotein  1. polysaccharide  1. polysaccharide  1. polysaccharide  1. polysaccharide  1. polysaccharide  1. polysaccharide	41. Glucose	orange juice	49. Storch	popcorn				
Part D. State whether each is found in animals, plants or both.  52. Animals saturated fat 61. Both glucose 53. Both protein 62. Both RNA  54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Both monosaccharide 67. Both 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 wanted to grow healthy hair? 71 you wanted to grow healthy hair? 72 you had a race tomorrow afternoon? 73 you wanted to get bigger muscles?  Protein  11 you wanted to get bigger muscles?	42. Protein / Saturated	cheese	50. Protein	lobster				
52. Animals saturated fat 61. Both glucose 53. Both protein 62. Both RNA 54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Both monosaccharide 67. Both 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 wanted to grow healthy hair? 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?  Protein  Protein  10. Polysaccharide  11. Polysaccharide  12. Protein  Protein  Protein  Protein  Protein  Protein  Protein  Protein  Protein	43. Sturch	wheat	51. Unsaturated for	sesame oil				
53. Both steroid 62. Both polysaccha 54. Both steroid 63. Both polysaccha 55. Both amino acid 64. Animals glycogen 56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Toth monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you haven't eaten in days? 71you wanted to grow healthy hair? 72you had a race tomorrow afternoon? 73you were getting ready for hibernation? 74you wanted to get bigger muscles?  Protein  Protein  Protein  Protein  Protein  Protein  Protein  Protein	Part D. State whether each is found in animals, plants or both.							
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amino acid  64. Animals glycogen  56. Both DNA  65. Plants starch  57. Plants cellulose  66. Both phospholip  58. Both monosaccharide  67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if  68you needed a quick boost of energy?  69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein	53. Both	protein	62. Both	RNA				
56. Both DNA 65. Plants starch 57. Plants cellulose 66. Both phospholip 58. Both monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you haven't eaten in days? 71you wanted to grow healthy hair? 72you had a race tomorrow afternoon? 73you were getting ready for hibernation? 74you wanted to get bigger muscles?  Protein  Protein  Protein	54. Both	steroid	63. Both	polysaccharide				
57. Plants cellulose 66. 35th phospholip 58. 36th monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if 68you needed a quick boost of energy? 69you wanted to grow strong nails? 70you haven't eaten in days? 71you wanted to grow healthy hair? 72you had a race tomorrow afternoon? 73you were getting ready for hibernation? 74you wanted to get bigger muscles?  Protein	55. Both	amino acid	64. Animals	glycogen				
monosaccharide 67. Both enzyme  Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if  68you needed a quick boost of energy?  69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein  Lipid  Protein	56. Both	DNA	65. Plunts	starch				
Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if  68you needed a quick boost of energy?  69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Polysaccharide  Protein  Lipid  Protein	57. Plants	cellulose	66. Both	phospholipid				
68you needed a quick boost of energy?  69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein  Protein  Protein  Protein  Protein	58. Both	monosaccharide	67. Both	enzyme				
69you wanted to grow strong nails?  70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein  Protein  Protein  Protein  Protein  Protein	Part E. Which food molecule (monosaccharide, polysaccharide, lipid, protein) would you eat if							
70you haven't eaten in days?  71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Protein  Protein  Protein  Protein								
71you wanted to grow healthy hair?  72you had a race tomorrow afternoon?  73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Problem	69you wanted to grow	strong nails?	protein					
72you had a race tomorrow afternoon?  Polysacthoride  73you were getting ready for hibernation?  1 ipid  Problem  Problem	70you haven't eaten in	days?	Protein					
73you were getting ready for hibernation?  74you wanted to get bigger muscles?  Problem	71you wanted to grow	healthy hair?	Protein					
74you wanted to get bigger muscles?  Protein	72you had a race tomor	rrow afternoon?	Polysaccharide					
	73you were getting rea	dy for hibernation?	Lipid					
75your next meal will be in a week?  Lipid	74you wanted to get bi	gger muscles?	Probein					
	75your next meal will l	be in a week?	Lipid					