Name	Date	Period
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BIOLOGY – STUDY GUIDE CHAPTER 2b

- 1. Know terms such as:
 - organic
 non-polar
 water-soluble
 saturated
 unsaturated
- 2. Know all about carbohydrates!
 - monosaccharide, disaccharide, polysaccharide (definitions and diagrams)
 - know the chemical formula for glucose (and for carbs in general)
 - be able to draw the glucose diagram from memory
 - know the examples of carbohydrates: glucose, sucrose, lactose, fructose, cellulose, glycogen, starch, chitin
- 3. Know all about lipids!
 - know the definitions of triglyceride, phospholipids, and steroids
 - be able to identify the diagrams: triglyceride, phospholipids, steroid, fatty acid
 - know the examples of lipids: animal fat, vegetable oils, adipose, cell membrane, cholesterol, sex hormones
 - know the difference between saturated and unsaturated fatty acids
- 4. Know all about proteins!
 - identify the diagram of an amino acid (know the parts of the amino acid)
 - know the 8 types of proteins: hormonal, receptor, contractile, structural, enzymes, antibodies, storage, transport
 - be able to write an essay about all 4 levels of protein structure
 - be able to draw diagrams of all 4 levels of protein structure
 - know how to determine if an "R" group is polar or non-polar
- 5. Know all about dehydration synthesis and hydrolysis reactions!
 - draw 2 small molecules joining together to form a larger molecule
 - draw a large molecule splitting into 2 smaller molecules
 - know what happens to the water molecule in each type of reaction
- 6. Know all of these pictures (in addition to all of the ones listed above):
 - saturated fatty acid
 unsaturated fatty acid
 monosaccharide
 disaccharide
 polysaccharide
 amino acid
 steroid
 phospholipid
 triglyceride
 glycerol
- 7. Be able to write an essay about your food nutrient lab. Be familiar with all 4 indicators used. Be familiar with the procedure and results of the lab.