Biology 1 Name:

***Organic Molecules at a Glance***  Date:

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| ***Organic Macromolecule*** | ***Monomer(s)******(& examples)*** | ***Polymer(s)******(& examples)*** | ***Function(s)*** |
| *Carbohydrates* | MonosaccharidesC6H12O6Glucose, Fructose, Galactose | DisaccharideSucroseLactoseMaltosePolysaccharideCelluloseChitinStarchGlycogen | Energy – 4 cal/gStructureCell wall |
| *Lipids* | Fatty AcidsSaturated & Unsaturated | TriglyceridesPhospholipidsSteriods/Hormones | Energy – 9 cal/gStructureCell MembraneHormones – chemical messengers |
| *Proteins* | Amino Acids(there are 20 – see chart in notes) | Protein (polypeptide)Ex – hemoglobin, actin, myosin, atigensNote: heat & pH will cause protein to denature (lose shape – unravel – lose function) | Energy – 4 cal/gStructureCell IDMuscleEnzymes – speed up chemical reaction |
| *Nucleic Acids* | Nucleotides4 in DNA – A, T, G, C(sugar, phosphate, nitrogen base) | Nucleic AcidDNA & RNA | Stores/Transmits genetic information – instructions for building protein – see “Genetic Code” |

 Hour:

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| ***Organic Macromolecule*** | ***Monomer*** ***(sketch & label the structure)*** | ***Polymer******(sketch & label the structure)*** |
| *Carbohydrates* | Use your Organic Macromolecules – Monomers & PolymersStudy Guide to fill in this page.  |  |
| *Lipids* |  |  |
| *Proteins* |  |  |
| *Nucleic Acids* |  |  |