**Carbon Compounds**

Notes Outline 10.5

I. Do Now: Update syllabus

II. Important Questions: (will be answered in later sections)

 A. What is it?

 B. Where do we find it?

 C. Why is it important?

 D. How is it unique?

III. Carbon and Organisms

 A. Organisms are made of carbon compounds

 B. Organisms use carbon compounds to store energy / food

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ make their own food from CO2 in the air.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ get energy by eating carbon compounds.

III. Important uses / functions of carbon

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IV. Carbon Chemistry

 A. Organic Compound: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 B. # and type of bonds: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 C. Types of structures (3) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 D. Types of covalent bonds: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Alkanes:

 Alkenes:

 Alkynes:

 E. Functional Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

V. Carbon Polymers and Monomers

 A. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a large molecule made up of many small, repeated subunits called \_\_\_\_\_\_\_\_\_\_.

 B. Example (sugars): Many glucose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are combined to make the polysaccharide polymer cellulose

**\*\*\*\* VI: SUMMARY**

 A. Organic compound: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 B. Carbon is required by \_\_\_\_\_\_\_\_ living things.

 C. Carbon atoms make \_\_\_\_ bonds, that are \_\_\_\_\_\_\_\_\_\_\_\_\_. Because of this, it can make a large number of different structures and molecules.

 D. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a long chain of smaller parts bonded together. The smaller parts are called \_\_\_\_\_\_\_\_\_.

VII: Homework