

Name: _____ Teacher: _____ Pd. ____ Date: _____

STAAR Science Tutorial 17 **TEK 7.6A: Organic Compounds**

TEK 7.6A: Identify that organic compounds contain carbon and other elements such as hydrogen, oxygen, phosphorus, nitrogen, or sulfur.

Organic Compounds

- Any compound that uses a **chain of carbon atoms** are the **structural backbone** of the molecule is known as an **organic compound**.
- Organic compounds are usually made by living organisms to build the structures of their bodies or support the chemical processes of life. Today they can also be made in a lab.
- Examples of organic compounds in living organisms are **carbohydrates** , **proteins**, **fats** and **nucleic acids** .
- Examples of organic compounds include glucose ($C_6H_{12}O_6$), butane (C_4H_{10}), cellulose ($C_5H_{10}O_5$), and urea ($CO(NH_2)_2$).
- Other elements that are commonly found in the organic compounds of living organisms include hydrogen (H), oxygen (O), nitrogen (N), sulfur (S) and phosphorus (P).

Practice Problems

1. An organic compound has one or more _____ atoms as part of the molecules structure.
2. Organic compounds are usually made by _____ to support life processes.
3. Other elements found in the organic compounds of living organisms include:
_____, _____, _____,
_____ and _____.