**Simple Organic Compound Naming Student Worksheet KEY**

1. What is an element?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is a compound?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the difference between organic and inorganic compounds?

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What elements are **most** living things made of?

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1. Which **element** is considered the foundation for making organic compounds? Why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

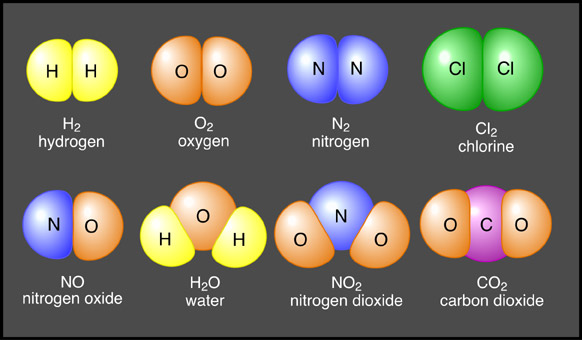
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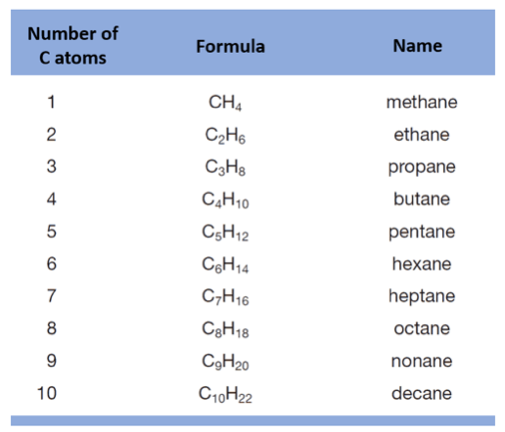
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1. Is the compound water (H2O) an organic compound? Explain.

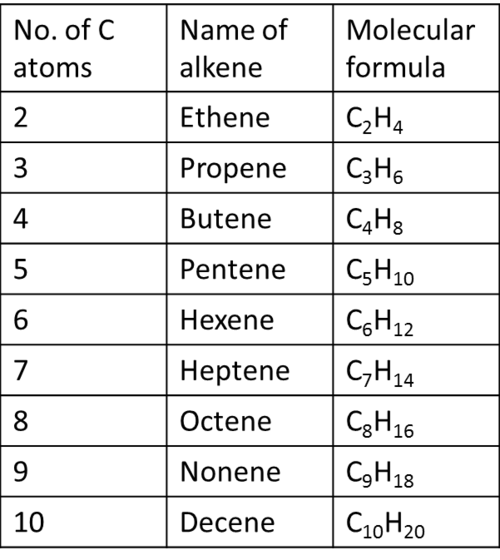
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1. Circle all organic compounds and square all inorganic compounds in the picture below:



Common organic alkanes using the legend to the right:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # C | Prefix | Suffix | Structural formula | Molecular formula |
| 1 |  | -ane |  |  |
| 2 |  | -ane |  |  |
| 3 |  | -ane |  |  |
| 4 |  | -ane |  |  |
| 5 |  | -ane |  |  |
| 6 |  | -ane |  |  |
| 7 |  | -ane |  |  |

Common organic Alkenes using the legend to the right

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # C | Prefix | Suffix | Structural formula | Molecular formula |
| 1 |  | -ene |  |  |
| 2 |  | -ene |  |  |
| 3 |  | -ene |  |  |
| 4 |  | -ene |  |  |
| 5 |  | -ene |  |  |