**Angeles  City Science High School**

**Science 9**

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Activity 1: Change It Up!

Directions**:** Complete the table below by changing the type of formula present in the table into another formula.

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the compound | Molecular Formula | Condensed Formula | Structural Formula |
| 1. Methane | CH4 | CH4 |  |
| 2. Butane | C4H10 | CH3CH2CH2CH3 |  |
| 3. 2 Pentene | C5H10 | CH3CH=CHHC2CH3 |  |
| 4. 4 Hexene | C6H12 | CH3CH2CH=CHCH2CH3 |  |
| 5. Ethanol | C2H5OH | CH3CH2OH |  |

## Activity 2: Do You Know Me?

Directions**:** Identify the type of hydrocarbon with the structural formula as hint.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Type of Hydrocarbon | Structural Formula | No | Type of Hydrocarbon | Structural Formula |
| 1 | Alkane |  | 6 | Ester |  |
| 2 | Alcohol |  | 7 | Aldehyde |  |
| 3 | Alkene |  | 8 | Ketone |  |
| 4 | Alkyl Halide |  | 9 | Alkyne |  |
| 5 | Carboxylic Acid |  | 10 | Ether |  |

## Activity 3: The Match Maker

Directions: match the column A (types of hydrocarbons) with Column B (examples of hydrocarbons).

## Column A

D Alkanes

I Alkenes

E Alkynes

J Alkyl halides

A Aldehydes

G Ketones

H Carboxylic acid

F Ether

B Ester

C Alcohol

## Column B

1. Ethanal
2. Ethyl acetate
3. Methanol
4. Hexane
5. 2- pentyne
6. Diethyl ether
7. Propanone
8. Acetylsalicylic acid
9. 2-butene
10. Propyl chloride