## **CONCEPT: NAMING ALKANES**

- In naming organic compounds, we use the \_\_\_\_\_ method of nomenclature.
  - □ **IUPAC** (International Union of Pure and Applied Chemistry): systematic set of rules.

## **Alkane Prefixes**

- Alkane names are based on the number of \_\_\_\_\_ present in a molecule and end with \_\_\_\_\_.
  - □ Use the following prefixes to name the \_\_\_\_\_ of the alkane.

Alkane Prefixes		
Prefix	# of Cs	Prefix
Meth-	6	Hex-
Eth-	7	Hept-
Prop-	8	Oct-
But-	9	Non-
Pent-	10	Dec-
	Prefix  Meth- Eth- Prop- But-	Prefix # of Cs  Meth- Eth- Prop- 8 But- 9

**EXAMPLE**: Name the following alkanes.

**PRACTICE:** Provide a skeletal structure for nonane.