## inspirit Significance of Arrows in A Chemical Reaction

Crystal

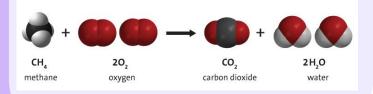
Biology with

## Chemical Reaction Process

- A chemical equation is an empirical representation of a chemical process.
- A chemical equation can be used to depict the burning of methane.

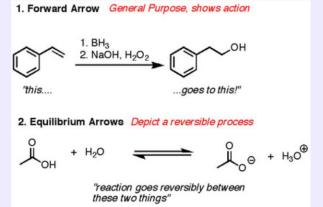
CH4(g) + 202(g)→C02(g) + 2H20(g)

• According to this equation, oxygen and CH4 combine to generate H20 and CO2.



## **Arrows in A Chemical Equation**

- The **direction of the reaction** is shown by an arrow pointing from the reactants to the products.
- Several reactions may occur: elements can create compounds, compounds can form elements, and compounds can join, break apart, or reorganize to generate new compounds.
- A symbol could be placed above or below the arrow to denote a specific scenario.
- When the Reaction is heated, the sign " $\Delta$ " is frequently used.



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