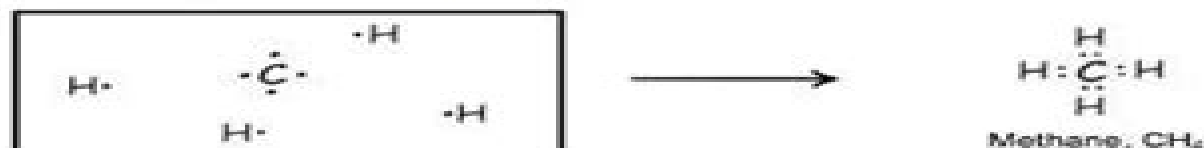


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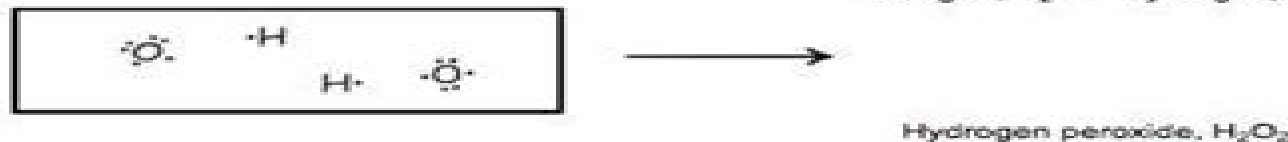
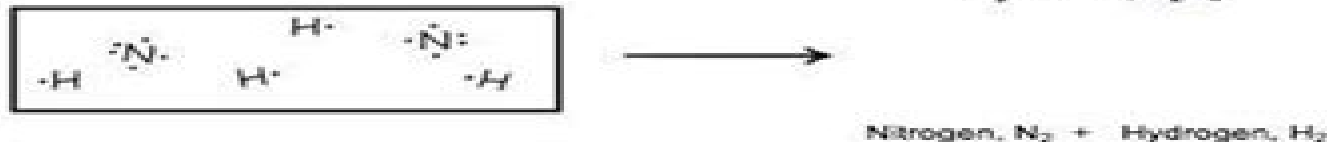
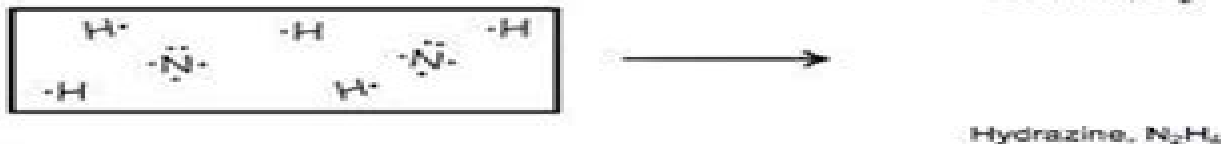
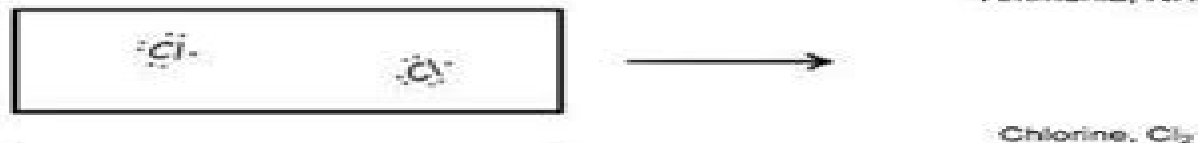
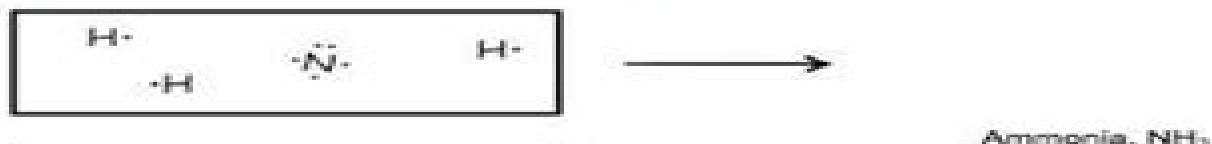
## How Atoms Bond

### Electron-Dot Structures

Electron-dot structures tell us how atoms tend to bond with other atoms. Carbon's electron-dot structure, for example, shows 4 unpaired valence electrons. Each hydrogen atom has 1 unpaired electron. Unpaired electrons from different atoms can pair up resulting in a bond. For carbon and hydrogen, we have the following, which creates the molecule methane,  $\text{CH}_4$ :



Use this idea to draw the electron-dot structures of the products indicated by name:



# Study Guide Electric Charge Key

**Jake Nolan**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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