

Interview with an Electron

The following descriptions are from the point of view of electrons that are participating in three different types of bonds-ionic, metallic, and covalent. Identify the type of bond that each electron describes. At the right of the page is a list of characteristics of bonds and substances containing the bonds. **Match each characteristic with the corresponding bond by drawing a line from the dots showing the characteristic to the dot by the proper bond.**



1. My buddies and I do not feel bound to the energy level of one atom in particular, so we can swim freely throughout the entire substance.

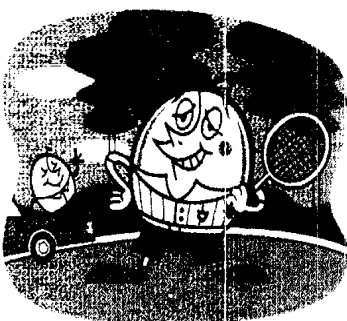
Type of Bond

_____ ▶

Substances are good conductors of electricity.

There's an attraction between nuclei and shared electrons.

There's a transfer of electrons.



2. I might change sides at the start, but once I end up on one side or the other I stick to my decision.

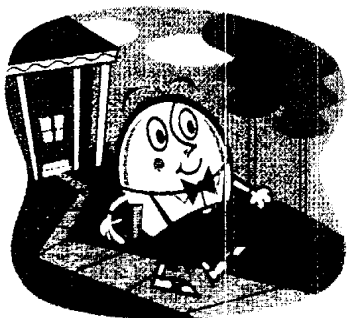
Type of Bond

_____ ▶

Two or more nonmetals are involved.

There's an attraction of positive ions and free-moving electrons.

A metal reacts with a metal.



3. I do not feel partial to either of the atoms in my bond. To be fair, the other bonding electron and I divide our time between the other bonded atoms.

Type of Bond

_____ ▶

Compounds have a crystal-lattice structure.

A metal reacts with a nonmetal