

# Types of Chemical Bonds

**Context:** Before this point we mainly talked about atoms by themselves, but frequently atoms are more often found in molecules. These molecules are connected with **chemical bonds** that come from atoms exchanging of valence electrons. When various atoms bond with one another, they can form different types of chemical bonds with unique properties.

## Model 1: Bonding, Bonding Atoms

**Needed Items:** 10 - 20 beads, large bowl/container

Students will be in groups of three. With two students playing at a time and one student holding the bowl. We will refer to the students playing as "Student A" and "Student B".

**Rules:**

- 1) For each round, Each player will try to grab the beads out of the bowl ~~one at a time~~ using a single hand, with the other hand behind their back.
- 2) The winner is the student with the most beads at the end of each round.
- 3) Have students record scores for each round in the table on page 2.
- 4) After all rounds have been completed, switch up who is holding the bowl and who is playing, repeat until all members of a group have played each other.

**Rounds -**

**Round 1:** The student holding the bowl will hold the bowl level so that no student has an advantage.

**Round 2:** Tilt the bowl slightly towards Student A (about a 30 degree tilt).

**Round 3:** Tilt the bowl slightly towards Student B (about a 30 degree tilt).

**Round 4:** Tilt the bowl heavily towards Student A, (maximum angle of tilt without spilling the beads).

**Round 5:** Tilt the bowl heavily towards Student A, (maximum angle of tilt without spilling the beads).

# Foundations Of Chemistry Pogil Answer Key

**Léo Pomar**



## **Foundations Of Chemistry Pogil Answer Key:**

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