VSEPR AMD MOLECULAR GEOMETRY

Models:

- Models are attempts to explain how mature operates operates on the microscopic level based on experiences in the macroscopic world.
    - Models can be physical such DNA model.
    - Models can be mathematical.
    - Models can be theoretical or philosophical

Fundamental Properties of Models:

- A model does not equal reality.
- Models are oversimplifications, and are therefore often wrong
- Models become more complicated as they age.
- We must understand the underlying assumptions in a model so that we don't misuse it.

VSEPR Model:

- **V**alence **S**hell **E**lectron **P**air **R**epulsion
- The structure around a given atom is determined principally by minimizing electron pair repulsions.

Predicting a VSEPR Structure:

- Draw Lewis structure.
- Put pairs as far apart as possible.
- Determine positions of atoms from the way electron pairs are shared.
- Determine the name of molecular structure from positions of the atoms.