

Star Trek VSEPR and Lewis Structures

VSEPR (Vulcan-Starfleet Emergency Planned Response) = Valence Shell Electron Pair Repulsion

Valence Shell =

Electron Pair =

Repulsion =

Explain what is meant by Valence Shell Electron Pair Repulsion.

What might VSEPR be used for?

Attack Plan = 3-dimensional drawing of the chemical structure.

Attack Angle = angle between the elements involved in bonding.

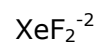
Klingon-Romulan Attack Code = the chemical formula.

Klingon-Romulan Code Word = the name of the geometry.

Starfleet Planned Defense Code = the hybridization of the electron orbitals

Working in groups of 4, draw Lewis structures for the following. Assign one row to each person and then share structures when finished.





Each of the Lewis structures you drew corresponds to one of the 'attack plans' on the Star Trek worksheet we did yesterday. Match each compound with its correct attack plan. For each, indicate its geometry (code word) and its hybridization (defense code).