

Symmetry in Nature
Applications of Symmetry

Homework Assignment Week 6

Determine all the symmetry elements in the following molecules. Be specific about the rotations and mirror planes. Indicate the order of the axis of rotation and if the mirror planes are horizontal, vertical or dihedral. **Use symbols and words to describe the symmetry elements.**

- H_2S
- AlCl_3
- N_3^- ion
- SeCl_6
- PH_3
- HCN
- XeF_4