

VSEPR

Name: _____

1. Write the VSEPR notation of the central atom in each of the following, and predict the molecular geometry.

a. HOCl

b. SiF₄

c. NCl₃

d. CS₂

e. SCN⁻

f. NH₄⁺

g. H_2CO

h. SF_2

i. NI_3

j. XeF_4

k. BrO_3^-

2. Explain why the molecule BF_3 is trigonal planar, whereas a molecule with a similar formula, ClF_3 is T-shaped.