

## Answers to Homework: Unit 1, Lesson 10: VSEPR Theory and Molecular Shape

1. Read pages 178 to 185

2. Identify the molecular shape associated with the following VSEPR notations

a) $AX_5E_1$ square-based pyramid	e) $AX_6E_0$ octahedral
b) $AX_3E_0$ trigonal planar	f) $AX_3E_2$ T-shaped
c) $AX_4E_2$ square planar	g) $AX_3E_1$ trigonal pyramidal
d) $AX_2E_1$ bent or V-shaped	h) $AX_5E_0$ trigonal bipyramidal
e) $AX_4E_1$ seesaw	i) $AX_4E_0$ tetrahedral
f) $AX_2E_2$ bent or V-shaped	j) $AX_2E_3$ linear

3. On pages 185 – 186, do questions 18 to 21 (refer to the examples on pages 184 to 185)

Answers on page 211 are correct.