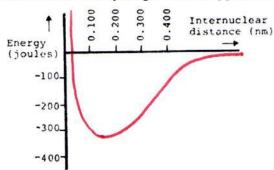
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9 • Bonding and Molecular Structure

QUICK CHECK • 1

☐ Sketch the potential energy involved as two hydrogen atoms approach each other.



(attraction/repulsion) between the potential energy drops because of the attraction (attraction/repulsion) between the potential energy drops because of the attraction is a structure of the attraction of the at

The distance when the potential energy is a minimum is called the equilibrium - bond - distance.

Draw the following *Lewis Dot Diagrams*.

Be (ground state)	Be (bonding state)	Si (ground state)	Si (bonding state)
Be:	· Be ·	51:	·si·

Draw the <i>Lewis Dot Diagram</i> for Calcium Chloride Co. This compound is (on a covalent/ionic).	[:ce:]
This compound is <u>tont</u> (covalent/ionic).	L 7

Explain how this bond was formed in terms of the electrons. THE CACCUM LOST TWO

OPPOSITELY CHARGED IONS ATTRACT EACH OTHER.

 \square Draw the *Lewis Dot Diagram* for BeH₂.

This compound is **COVALEM** (covalent/ionic).

H:Be:H

Explain how this bond was formed in terms of the electrons.

Be AND H SHARE

ELECTRONS TO FORM COVALENT BONDS.

State the octet rule? OFTEN (BUT NOT ALWAYS) ATOMS GAN, LOSE
OR SHARE ELECTRONS UNTIL THEY ARE NEAR EIGHT &-S

 \square Is the compound BeH₂ obeying the octet rule? \square