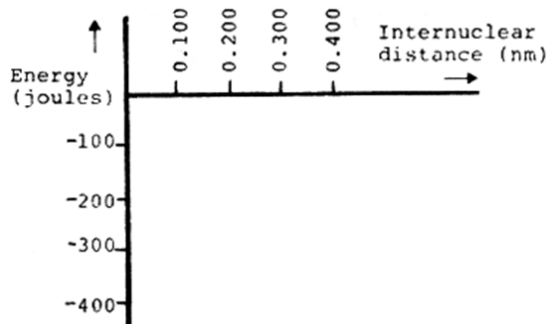


Name: _____ Date: _____ Period: _____ Seat #: _____

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



- As the two atoms get closer, the potential energy drops because of the _____ (attraction/repulsion) between the _____ and the _____.
- The distance when the potential energy is a minimum is called the _____ - _____ - _____.
- Draw the following *Lewis Dot Diagrams*.

Be (ground state)	Be (bonding state)	Si (ground state)	Si (bonding state)

- Draw the *Lewis Dot Diagram* for Calcium Chloride.
 This compound is _____ (covalent/ionic).
- Explain how this bond was formed in terms of the electrons. _____

- Draw the *Lewis Dot Diagram* for BeH₂.
 This compound is _____ (covalent/ionic).
- Explain how this bond was formed in terms of the electrons. _____

- State the octet rule? _____

- Is the compound BeH₂ obeying the octet rule? _____