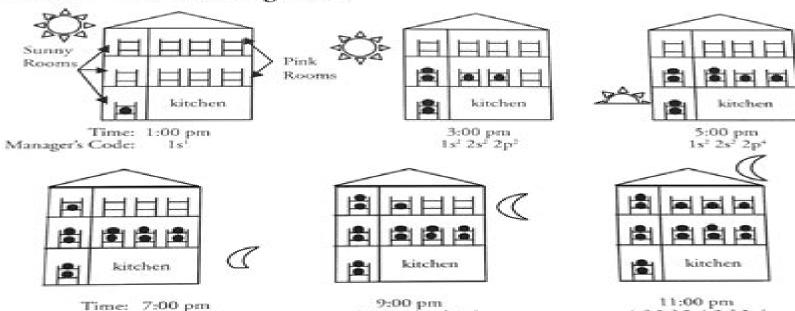
Electron Configurations

What is the electron structure in an atom?

Why?

The electron structure of an atom is very important. Scientists use the electronic structure of atoms to predict bonding in molecules, the charge(s) an atom might have, and the physical properties of elements, In order for scientists to describe the electron structure in an atom, they give the electrons "addresses." Just like your address might include your house number, street, city, and state, an electron's "address" has multiple parts. In this activity, you will learn how the electrons fill up the available spaces in an atom and how their "addresses" or configurations are assigned.

Model 1 - The Boarding House



- Manager's Code: 1s2 2s2 2p6 3s1
- 1s2 2s2 2p6 3s2 3p5

- 1s2 2s2 2p4 3s2 3p4
- Examine the boarding house diagrams in Model 1. Match each symbol below with its most likely meaning.

 - 1s2 2s2 2p6 3s1
- I. Bunk bed for boarders
- II. Manager's code for the number of boarders in the house and their room assignments.
- III. Boarder

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P. Phariseau

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