the same orbital, they have to have opposite spins—kind of like two dancers in the same spot spinning in opposite directions.

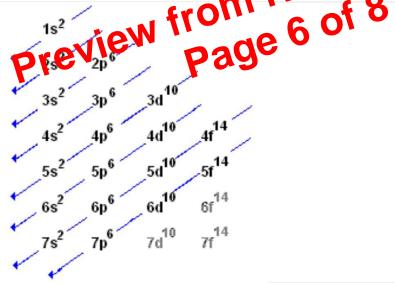
 Hund's Rule: If an orbital has multiple spaces (like the three p-orbitals), electrons will spread out and sit in separate spaces first before doubling up. It's like people filling up a row of seats one by one before sitting next to someone. Soooo, we can take electrons as avoid sharing orbitals like strangers avoiding the middle seat on a bus

Writing Electron Configurations:

We use a shorthand way to write down the electron configuration. For example:

• Hydrogen (H) has 1 electron, so its configuration is 1s1.

• Oxygen (O) has 8 electrons, so its configuration is 1s² (SOp (this means 2 electrons in the 1s orbital, 2 in the 3 orbital, and 4 in the 2p orbital).



Bigger Atoms:

For bigger atoms like **Iron (Fe)**, things get a little more complicated, but it still follows the same basic rules. For example, **Iron (Fe)** has 26