NAME: **HONORS CHEMISTRY**

SECTION: Writing Electron Configurations

Summarize the three rules for writing electron configurations:

* Aufbau principle
* Pauli Exclusion Principle
* Hund’s Rule

Mnemonic for orbital filling sequence:

Write ground state electron configurations for the following elements

1. Phosphorus

|  |  |
| --- | --- |
| Orbital notation (arrows and boxes) | |
| Spectroscopic notation | Noble gas notation |

1. Titanium

|  |  |
| --- | --- |
| Orbital notation (arrows and boxes) | |
| Spectroscopic notation | Noble gas notation |

1. Selenium

|  |  |
| --- | --- |
| Orbital notation (arrows and boxes) | |
| Spectroscopic notation | Noble gas notation |

1. Iron

|  |  |
| --- | --- |
| Orbital notation (arrows and boxes) | |
| Spectroscopic notation | Noble gas notation |