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

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

1. Titanium

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

1. Selenium

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

1. Iron

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