

Packet 7D

1) Write out the electron configuration for the following elements. You may use the Noble Gas core method.

a) Phosphorus	b) Nitrogen	c) Molybdenum	d) Titanium	e) Lead
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2) Draw the box diagram for the electron configuration of the following elements.

a) Chromium b) Sulfur

3) Draw the energy level diagram for the electron configuration for the following elements.

a) Gallium b) Chlorine c) Yttrium

4) Determine the electron configuration and if the following atoms are paramagnetic or diamagnetic.

Element	para/dia	electron configuration
Zinc		
Calcium		
Bismuth		
Germanium		
Palladium		

5) Determine the electron configuration of each of the following elements:

a) Zinc b) Rubidium c) Bromine d) Antimony e) Selenium

Periodic Table Battleship *oh you sunk my battleship*

Using a periodic table and a small divider play electron configuration battleship. I will go over what battleship is at the front of class and then you can play with a partner. The kicker is that you must play by saying the electron configuration, NOT the element name. The point of this exercise is to help you understand that the electron configuration of an element determines its location on the periodic table.