Name: ______________________

**E-config Battleship**

**Purpose**
To know how to look at an element on the periodic table and instantly determine its electron configuration.

**Materials**
1 manila folder per student  
2 laminated periodic tables per folder  
2 dry erase markers per student-different colors

**How to play**
- The game is played like traditional battleship. Each student has the manila folder open so that the opponent cannot see his/her periodic table.
- Each player puts a line through the appropriate number of elements to indicate an aircraft carrier (5 elements), a battleship (4 elements), a submarine (3 elements), a destroyer (3 elements), and a PT boat (2 elements).
- The first player calls a valence configuration for an element of his/her choice. For example, carbon would be 2p². The other player states the name of the element called (to verify understanding of the “code” between the players), and then says “hit” or “miss.”
- The player stating the configuration marks the top periodic table to note shots taken and the player being shot at marks hits and misses on the bottom periodic table.
- Play continues until all ships are sunk.