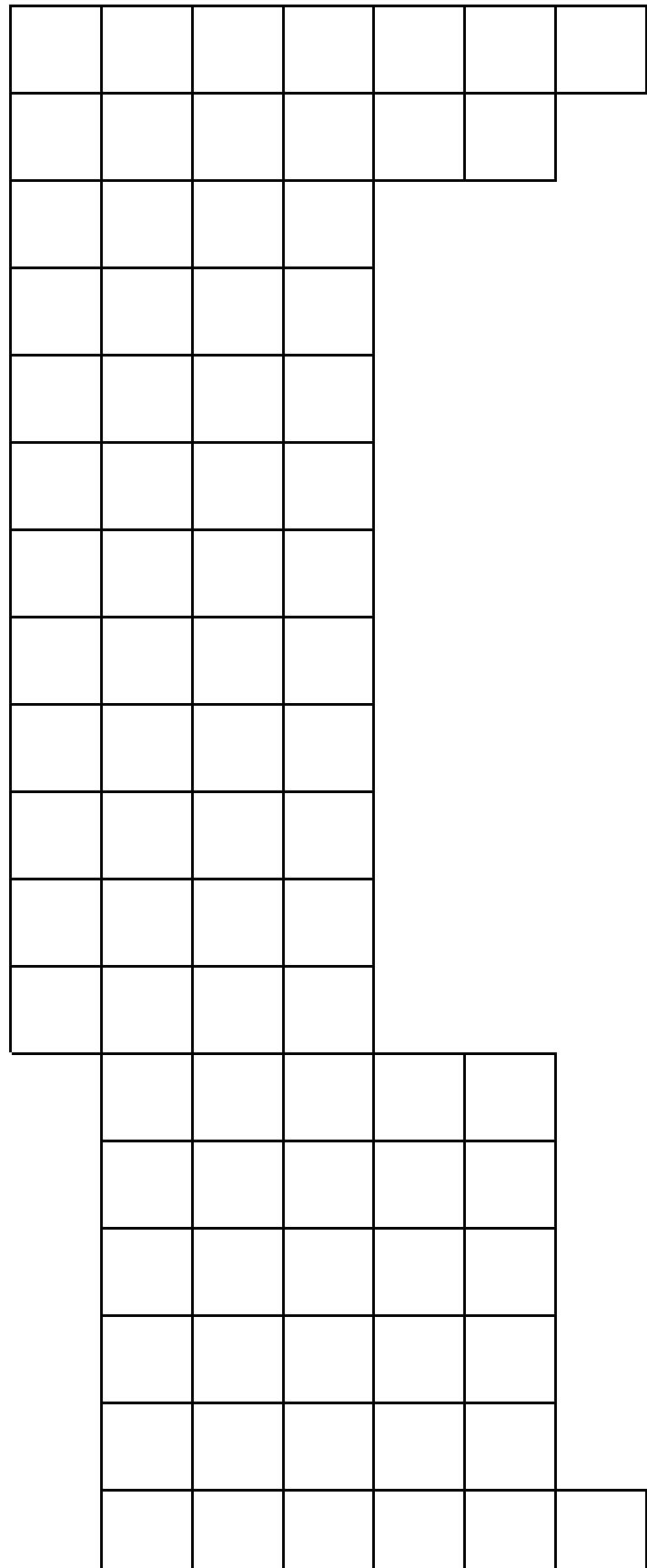


Quantum Number Organizer

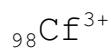


Two Types of Quantum Questions:

- electron configuration question
- list the quantum number question

Electron configuration means make reference to all electrons in an atom

eg $_{22}^{44}\text{Ti}$



element	n	l	m_l	m_s	end of config.
S					
					5d ³
		3	-2	-½	
Ge					
					1s ²
					5f ¹³
	4	0	0	+½	
	4	2	-1	+½	
					6d ¹
Yb					

Also should be able to say something intelligent about the following terms:

- Heisenberg uncertainty principle
- photoelectric effect
- quantum hypothesis
- line spectra
- absorption spectra
- emission spectra
- Thomson
- Bohr
- Rutherford
- Pauli Exclusion Principle
- Hund's Rule
- Aufbau Principle