Name :	 		 Date: -	
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## A Flactron Configuration A



	Liection	Configuration					
`		Answers					
1. Determine what elements are denoted by the following configurations.							
i. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p	4	Sulfur					
ii. 1s² 2s² 2p <sup>6</sup> 3s² 3p	o <sup>6</sup> 4s <sup>2</sup> 3d <sup>5</sup>	Manganese					
iii. 1s² 2s² 2p <sup>6</sup> 3s² 3	p <sup>6</sup> 4s <sup>2</sup> 3d <sup>10</sup> 4p <sup>6</sup>	Krypton					
iv. [Kr] 5s <sup>2</sup> 4d <sup>10</sup> 5p <sup>3</sup>		Antimony					
v. [Ne] 3s <sup>2</sup> 3p <sup>1</sup>		Aluminum					
2. Write the full electron configuration (ex., $1s^2 2s^1$ ) of the following elements?							
i. Nitrogen	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>3</sup>						
ii. Silicon	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>2</sup>						
iii. Calcium	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup>	4s <sup>2</sup>					
iv. Strontium	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4	4s <sup>2</sup> 3d <sup>10</sup> 4p <sup>6</sup> 5s <sup>2</sup>					
v. Bismuth	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>2</sup> 3d <sup>10</sup> 4p <sup>6</sup> 5s <sup>2</sup> 4d <sup>10</sup> 5p <sup>6</sup> 6s <sup>2</sup> 4f <sup>14</sup> 5d <sup>10</sup> 6p <sup>3</sup>						
3. Write the abbreviated electron configuration (ex., [He] 2s1) of the following element?							
i. Fluorine	[He] 2s <sup>2</sup> 2p <sup>5</sup>						
ii. Magnesium	[Ne] 3s <sup>2</sup>						
iii. Selenium	[Ar] 4s <sup>2</sup> 3d <sup>10</sup> 4p <sup>4</sup>						
iv. Rubidium	[Kr] 5s <sup>1</sup>						
v. Lead	[Xe] 6s <sup>2</sup> 4f <sup>14</sup> 5d <sup>10</sup> 6p	D <sup>2</sup>					
4. If each orbital can hold a maximum of two electrons, how many can each of the following hold?							
i. 2s ii. 5p 6 iii. 4f iv. 3d v. 4d 10							
5. What is the shape of an s orbital? Spherical							
6. What is the shape of a p orbital? Dumb-bell shaped							