

$$E = R_H \left(\frac{1}{n_i^2} - \frac{1}{n_f^2} \right) = hf = \frac{hc}{\lambda}$$

$$f = \text{meters!}$$

$$c = \frac{m}{sec}$$

$$c = f \lambda$$

$$f = \frac{c}{\lambda}$$

$$h = 6.63 \times 10^{-34} \text{ J} \cdot \text{sec}$$

$$R_H = 2.18 \times 10^{-18} \text{ J}$$

Oct 29-7:20 AM

$$E = mc^2$$

$$E = hf$$

$$c = f \lambda$$

$$\frac{f}{\lambda} = \frac{h}{mv}$$

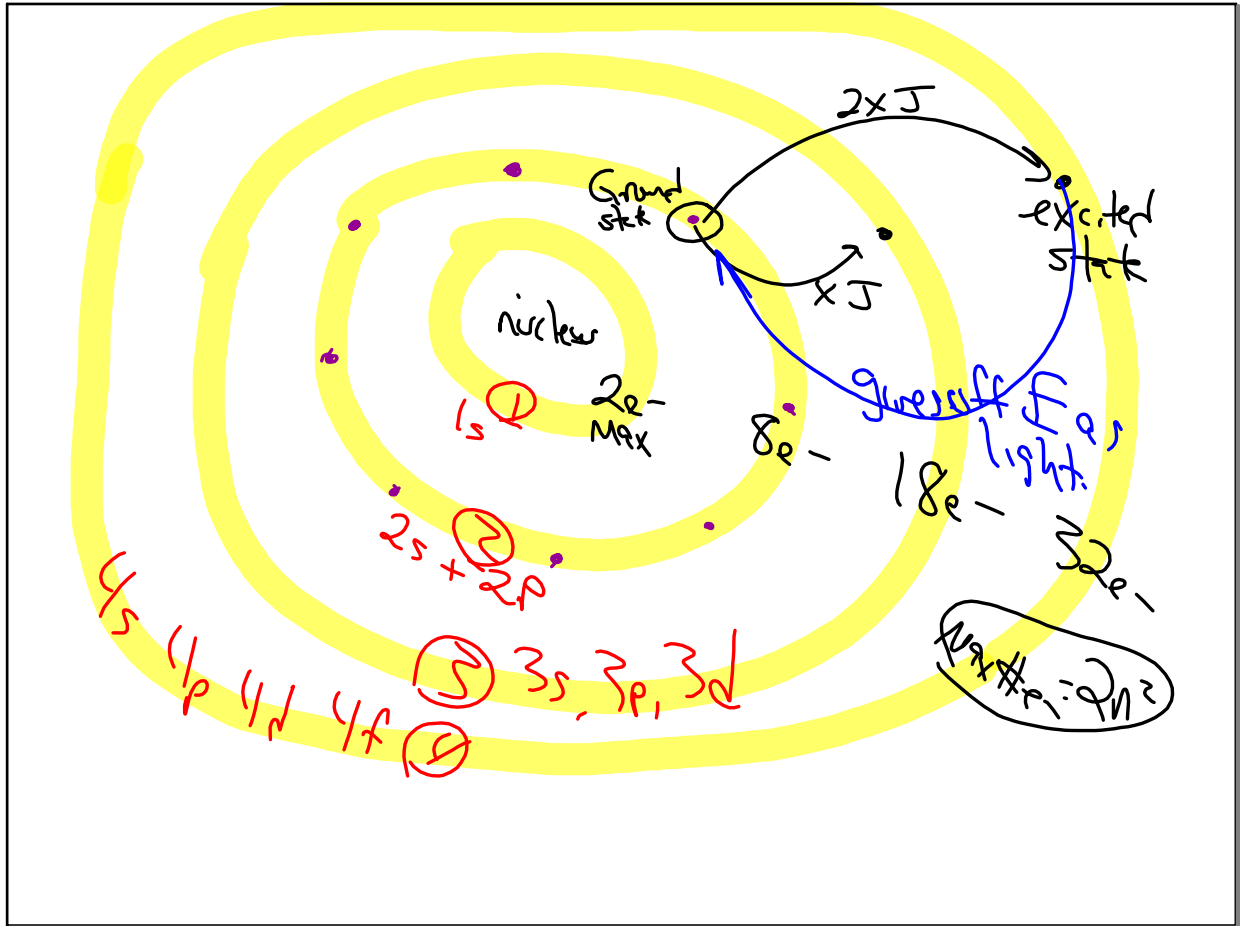
light \rightarrow mass

$$\text{mass} = \underline{\underline{kg}}$$

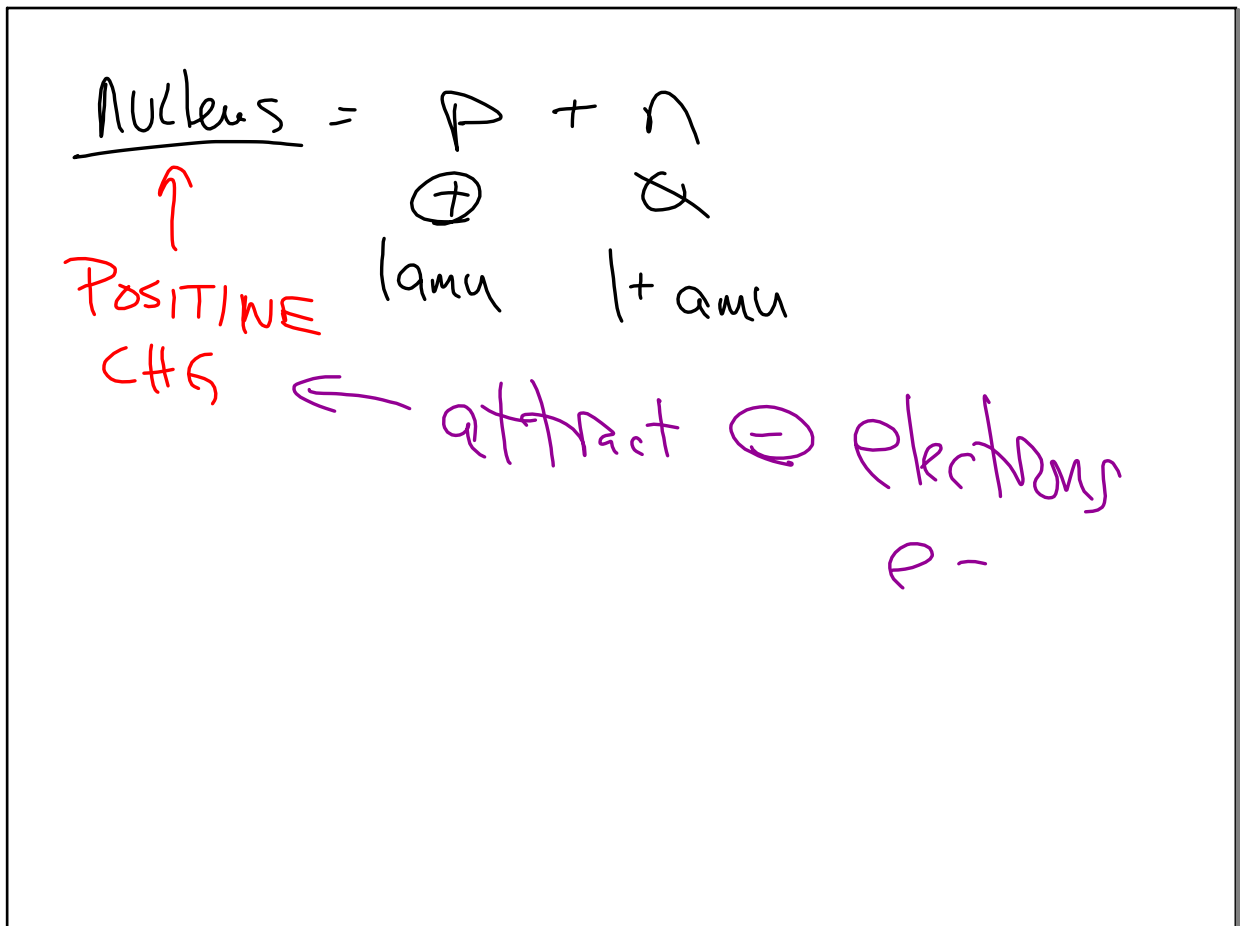
$$J = \frac{kg \cdot m^2}{sec^2}$$

QUANTA

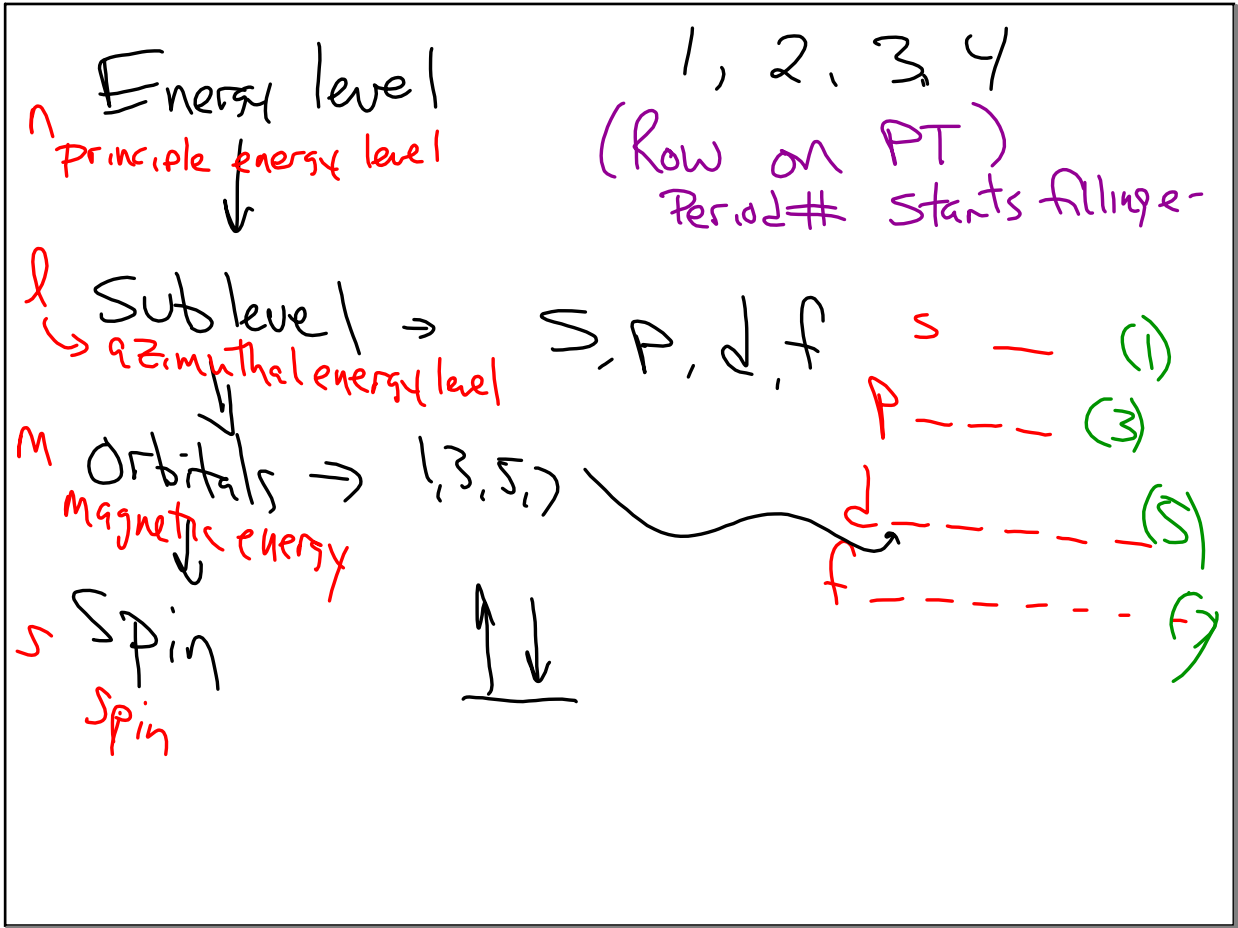
Oct 29-7:32 AM



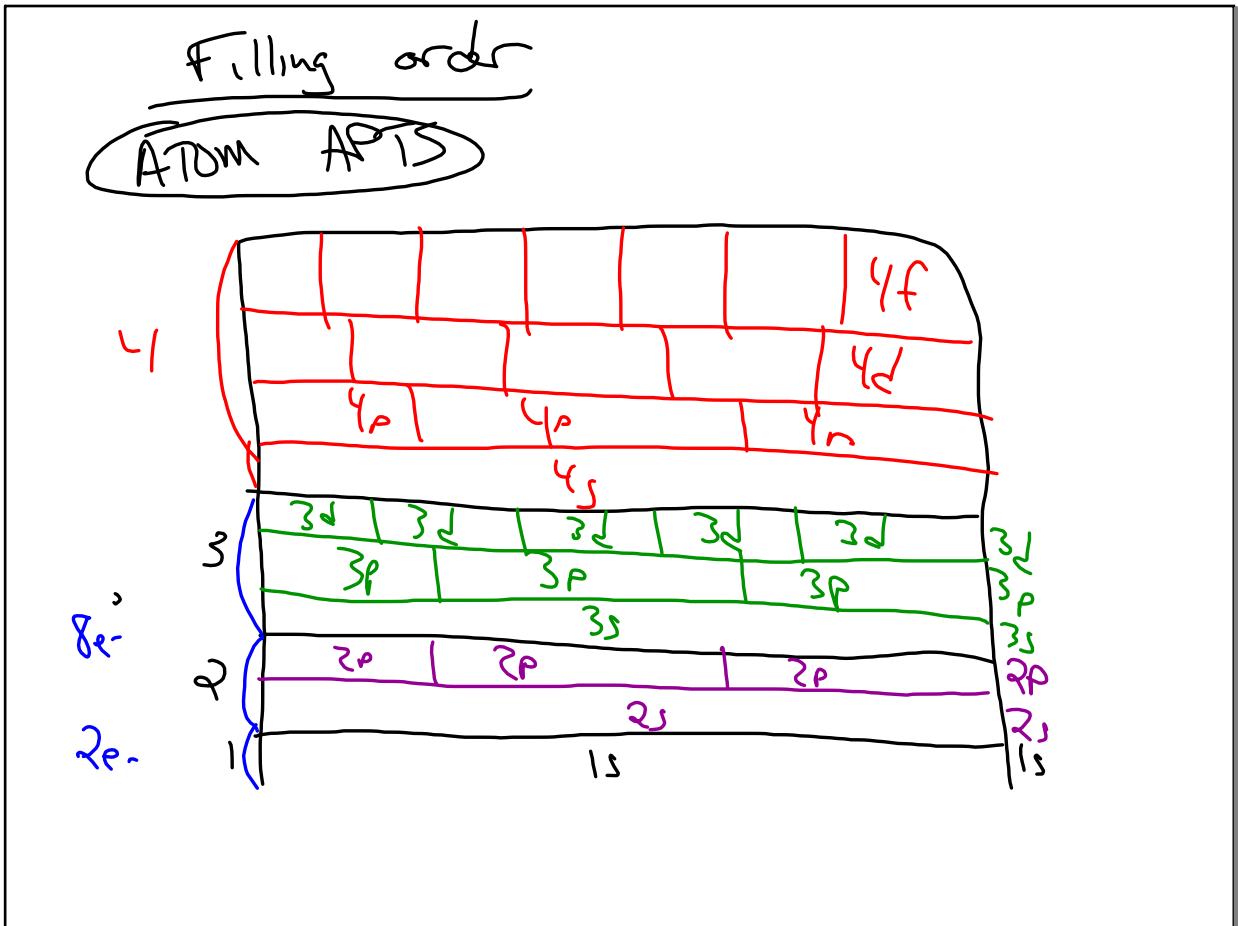
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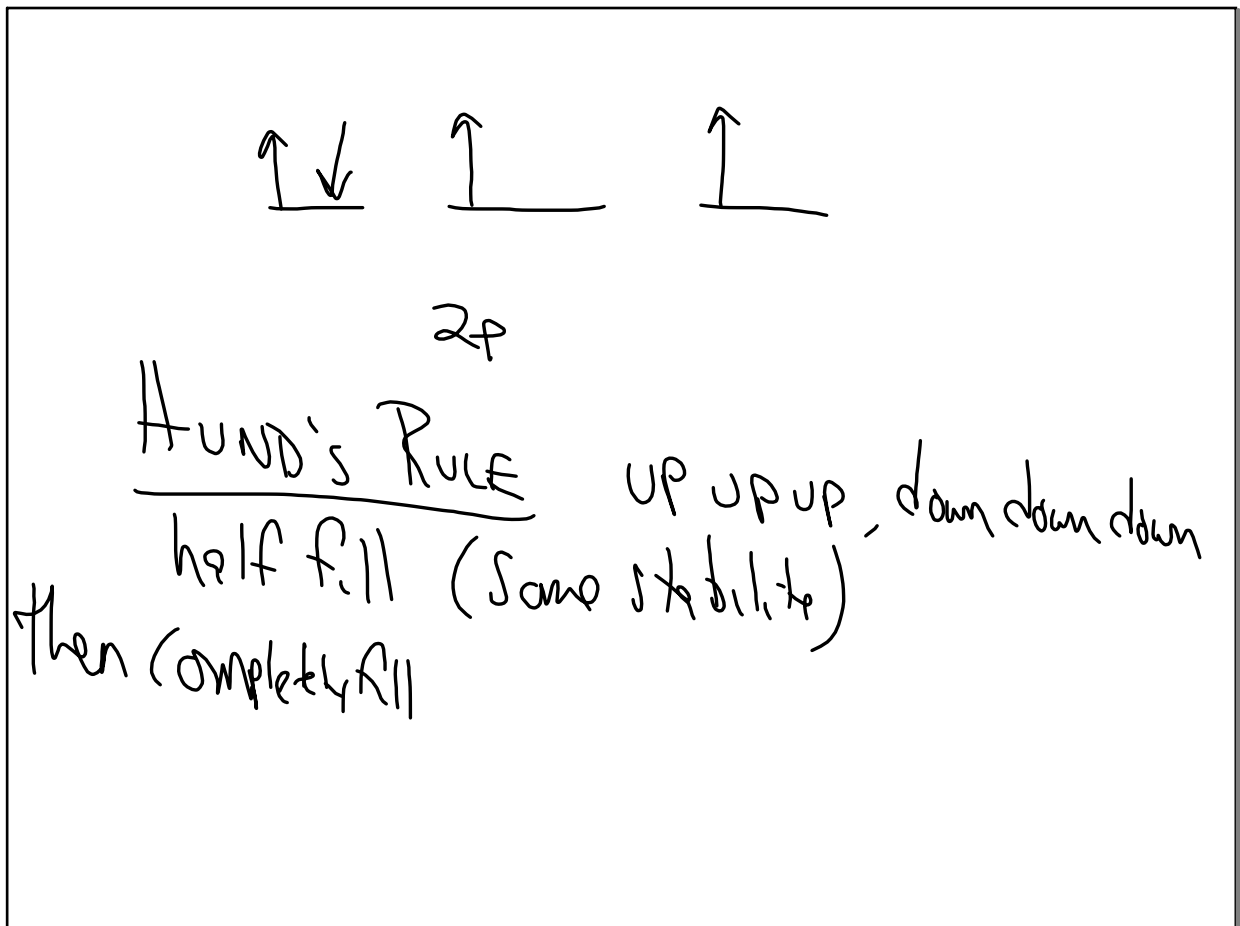
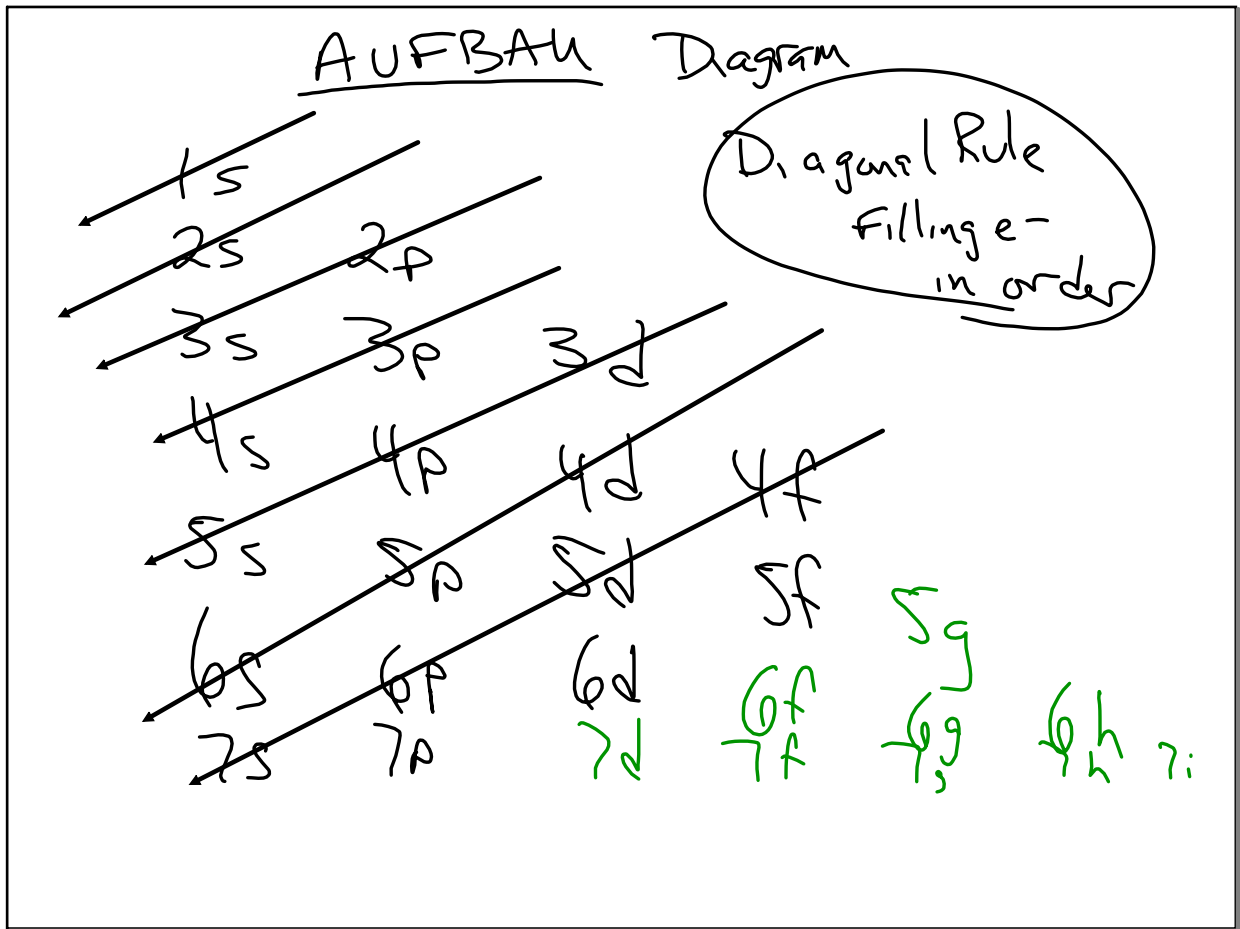
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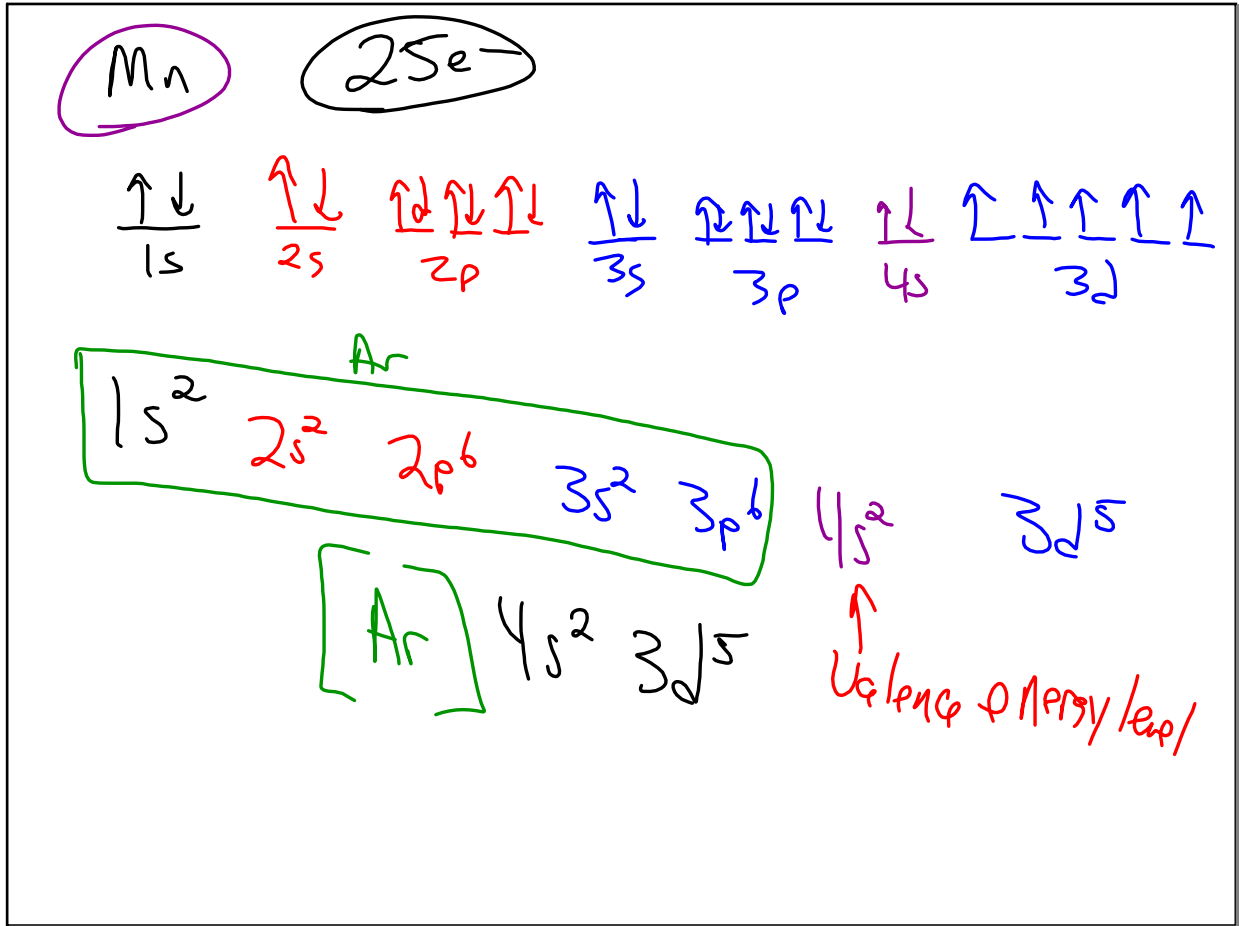


Oct 29-7:46 AM



Oct 29-7:56 AM





Ionization Energy (IE)

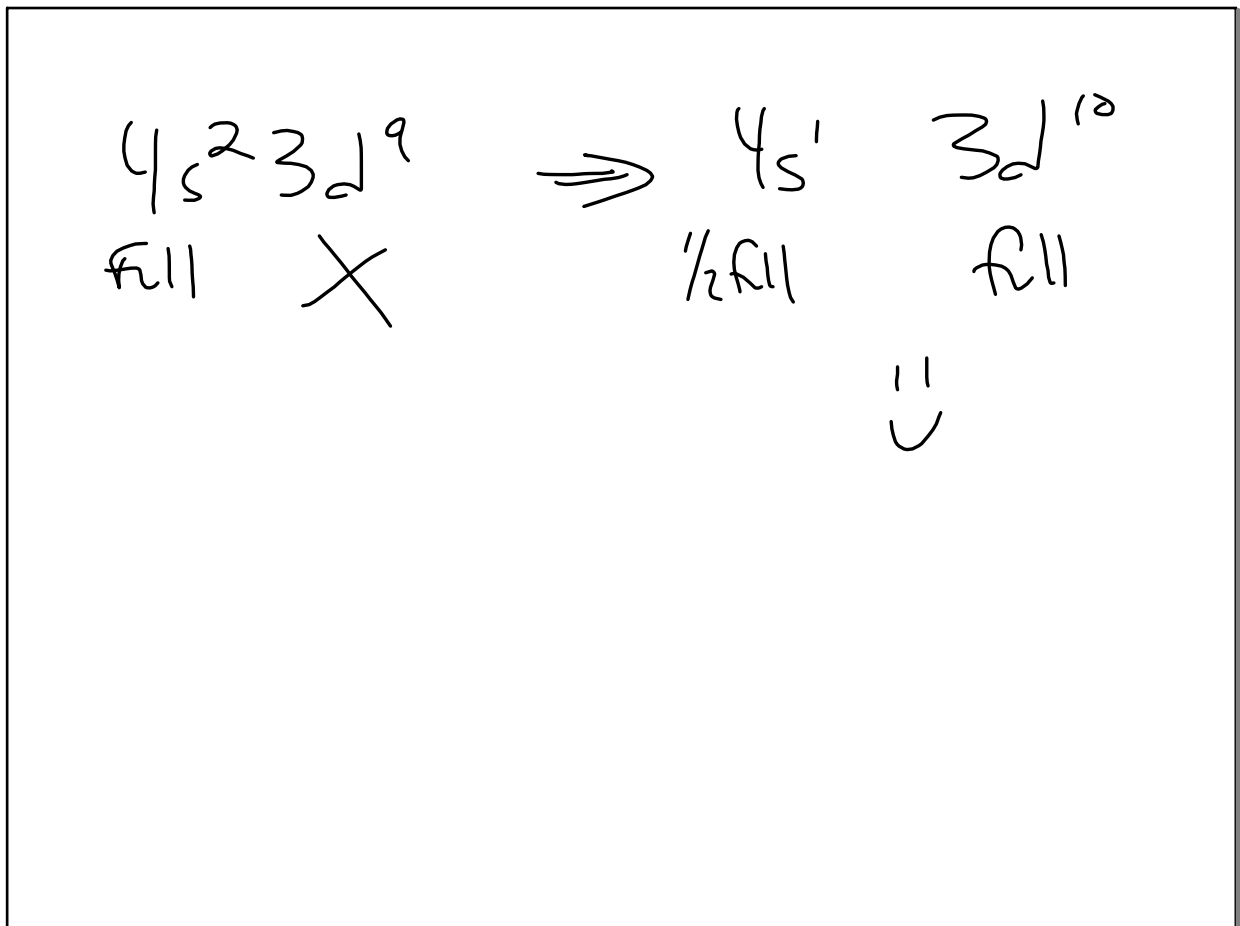
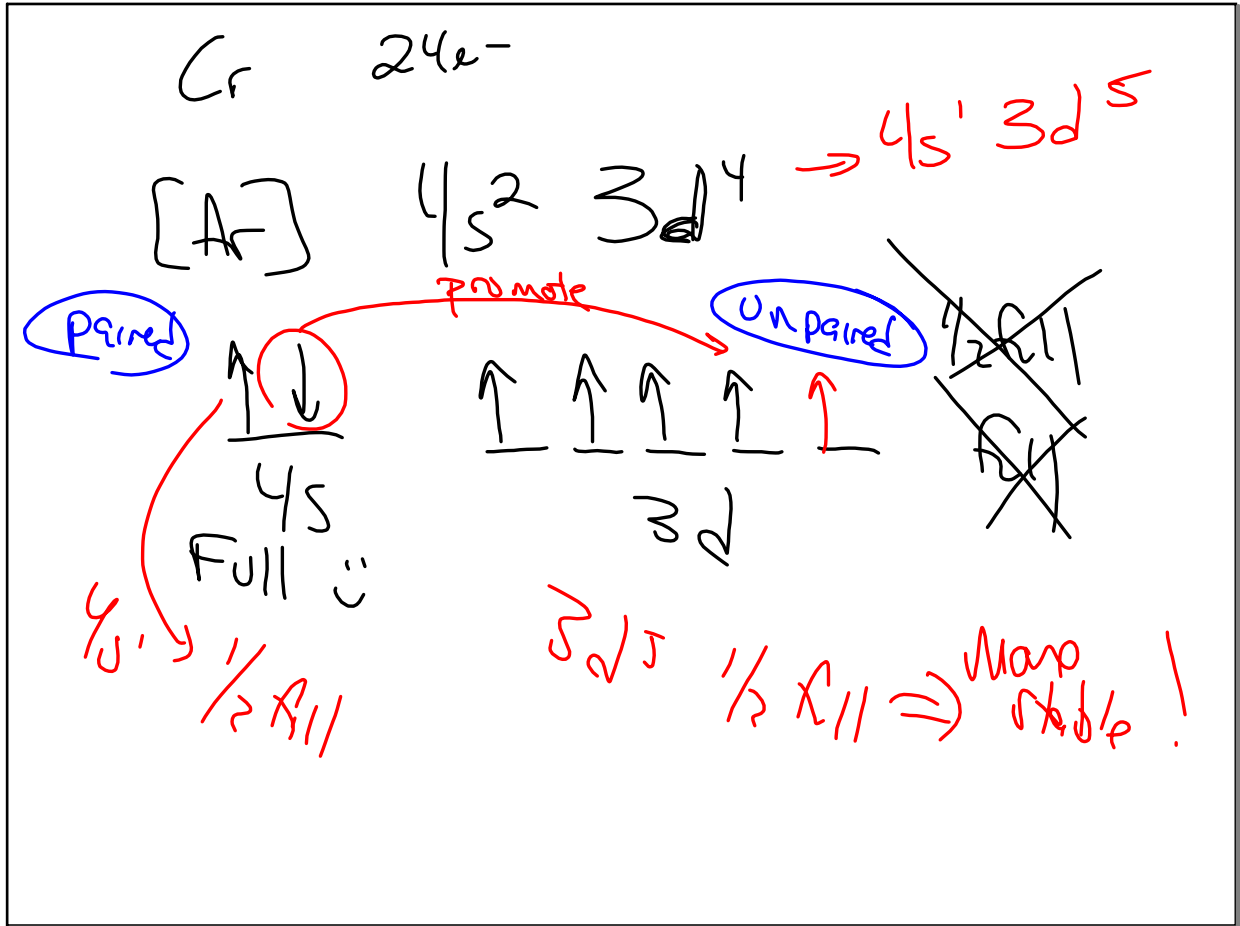
energy required to remove

Outermost Valence electron.

* Principle energy level

Most loosely held.

Oct 29-8:35 AM



6 / 66 + 68 a, b, c

Oct 29-8:45 AM