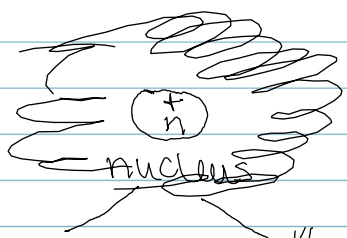
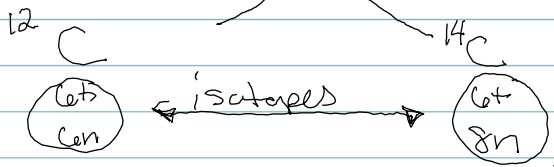


# 19.1 Radio activity

Parts of the atom



electron clouds  
"empty space"  
quantized  
valence - core  
"outermost"



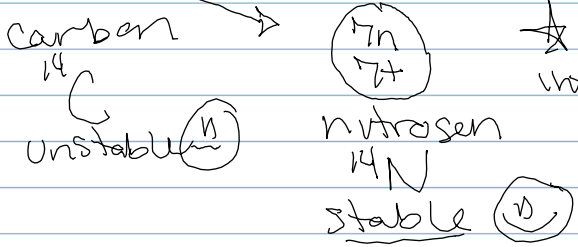
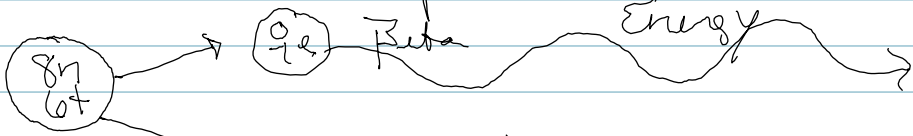
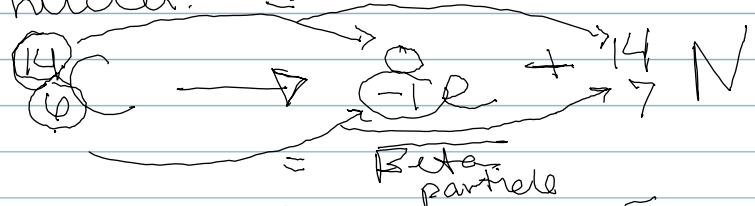
stable  
Lvl  
⊕ : ⊖

unstable

## Radioactive decay

spontaneous decomposition of the nucleus to form a more stable nuclei.

1a



★ Neutron decomposes into a ⊕ and ⊖

5730yr =  $\frac{1}{2}$   $^{14}\text{C}$