**Noteguide for Balancing Nuclear Reactions- Videos 30M Name**



Initial Nucleus(bombarding particle, emitted particle)Final Nucleus

Common Particles you should know:

α = 42He, p = 11H, d(deuterium) = 21H, t(tritium) = 31H, 10n = neutron, **00 γ =** gamma

Exoergic means:

Endoergic means:

Example:

What is the initial nucleus:

**???  + n ---> p + 146C**

Whiteboards: - Find the missing nucleus

|  |
| --- |
| **13756Ba (n , γ) ???** (**13856Ba**) |
| **13756Ba (n , ???) 13755Cs**(**p** = **11H)** |
| **21H (d , ?) 42He** (**γ** ) |
| **19779Au (α , d) ???**(19980Hg) |
| **94Be (??? , t) 84Be** (**21d**) |