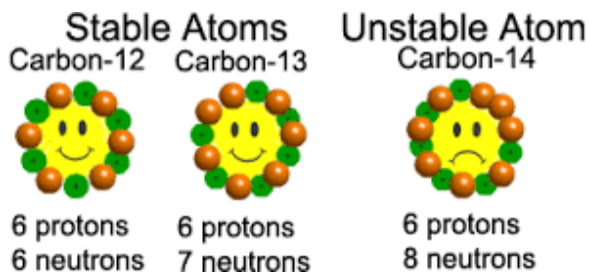


Isotopes

- Not all atoms of an element are exactly the same
- Some have different number of **neutrons** and are called **ISOTOPES** *different mass.*
- Some isotopes have an unstable nucleus!!



Atomic Mass = $\frac{\text{protons} + \text{neutrons}}{\text{atoms}}$

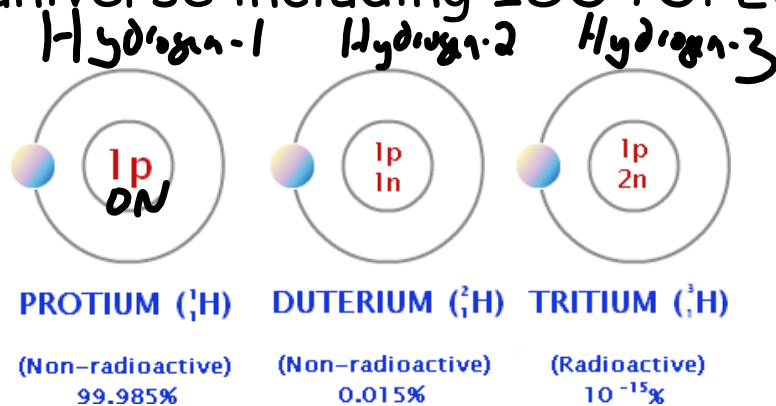
- A decimal number!

- Why?

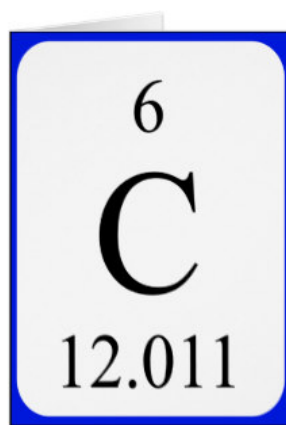
M_s
24.31

$\frac{1}{1}$
1.008

> It is an average of all atoms of element in the universe including ISOTOPES!!!!



Which has a higher abundance of isotopes?



How do you know???