

ATOMIC THEORY REVIEW



What is ALL matter made of?

ATOMS !!!

What are the 3 subatomic particles?

**Protons, neutrons, &
electrons!!!**

What are the charges of the subatomic particles?

p (+)

positive

n (0)

neutral

e (-)

negative

We know that there are the same number of p^+ and e^- in atoms on the Periodic Table... So What is the overall charge of those atoms?

NEUTRAL... the positive charge cancels out the negative charge = 0!!!

What are the masses (amu) of the subatomic particles?

What is this AMU stuff?????

$$p^+ = 1$$

$$n = 1$$

$$e^- = 0$$

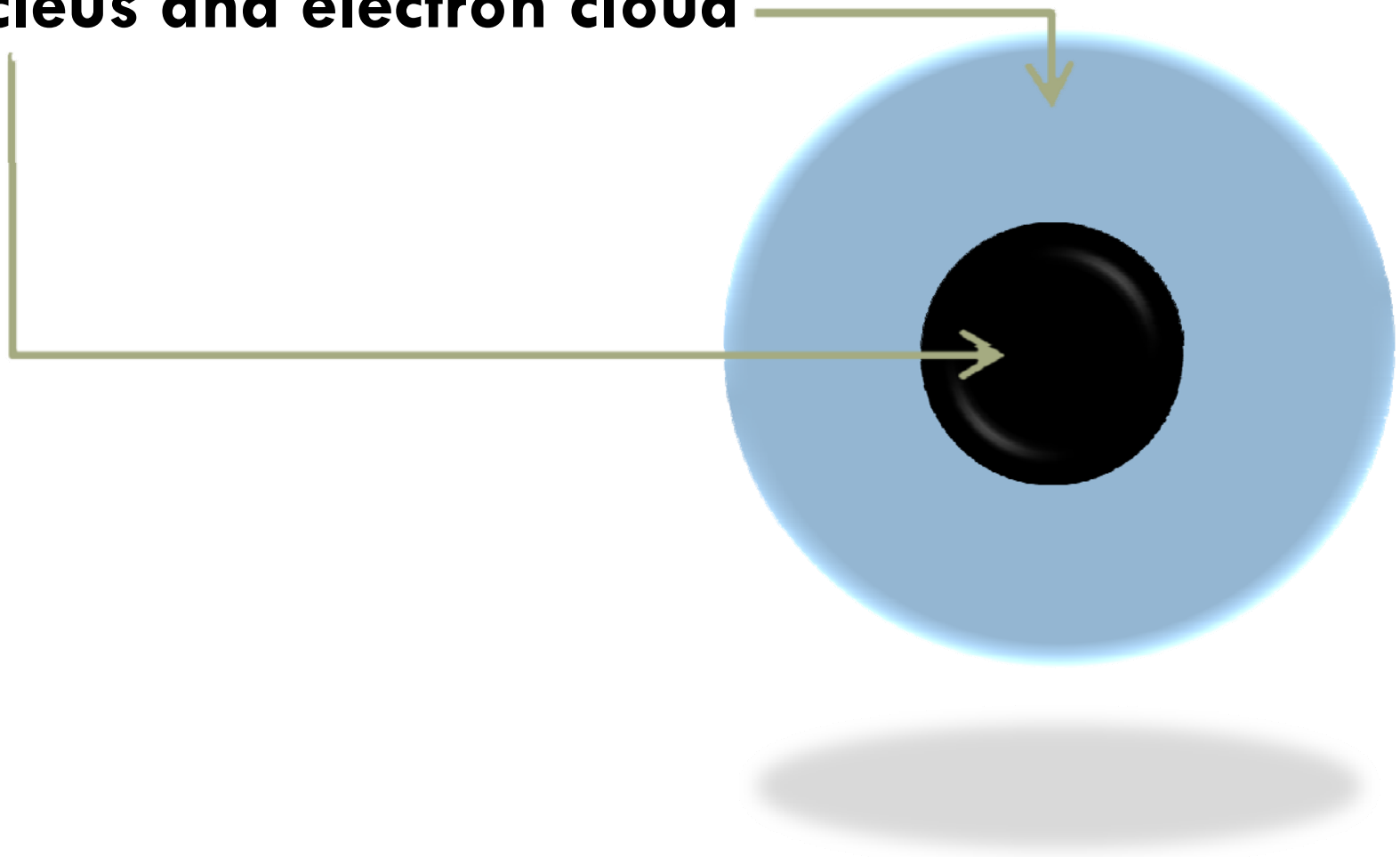
Atomic mass unit

$$2.2 \text{ lbs} = 1 \text{ kg}$$

$$1.66 \times 10^{-27} \text{ kg} = 1 \text{ amu}$$

What are the two areas of an atom?

Nucleus and electron cloud



Where are the p^+ , n , and e^- located in an atom?



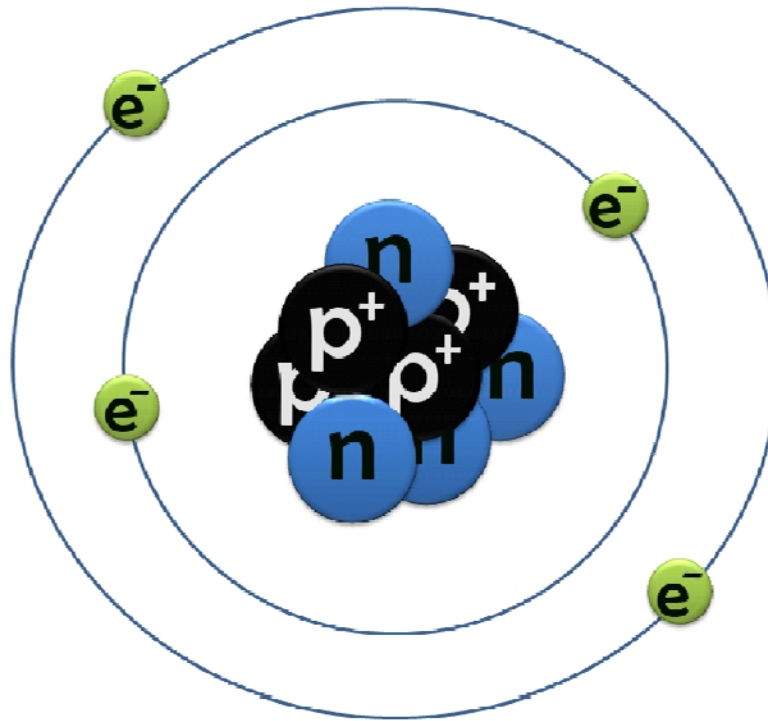
p^+ in nucleus

n in nucleus

e^- in electron cloud

Where is most of the volume of an atom located?
Where is ALL the mass in an atom located?

Electron Cloud



What does a Bohr model of the atom look like?

The nucleus contains the p^+ and n ... while the electrons “orbit” the nucleus in the energy rings of the e^- cloud.

Inventory Practice



1. Mg
2. Mo
3. Ag
4. Au
5. La