

QUIZ FRIDAY. I'LL GIVE BACK TESTS AT 11:55

PURPOSE: HOW DOES LIGHT TELL US WHAT ELEMENTS ARE IN A STAR?

WARM UP, fill in (For neutral charge)

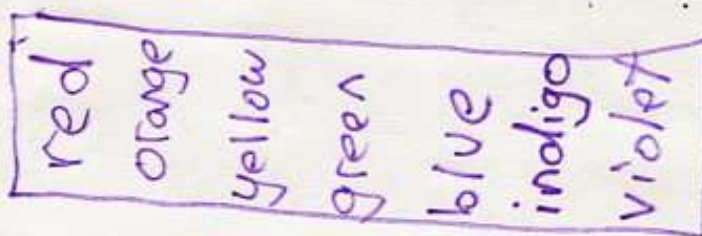
MASS #	Element	protons	neutrons	electrons
34	SULFUR	16	18	16
3	HYDROGEN	1	2	1
18	OXYGEN	8	10	8

Useful formulas:

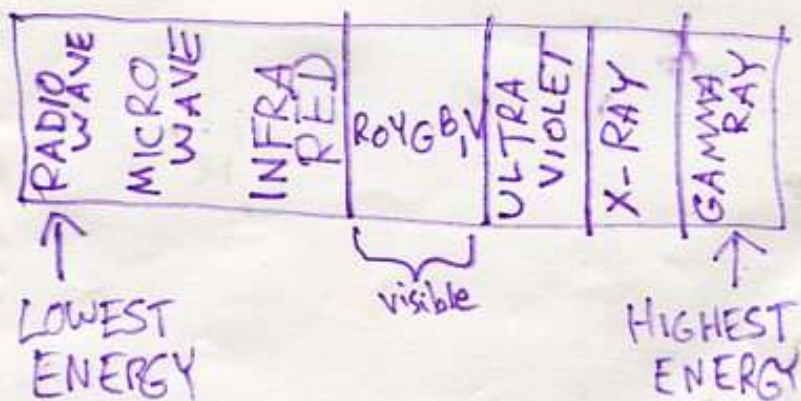
$$\text{neutrons} = \text{mass number} - \text{protons}$$

$$\text{charge} = \# \text{ of protons} - \# \text{ of electrons}$$

#2 VISIBLE LIGHT CAN BE SPLIT INTO



#3 INVISIBLE LIGHT:



#4 ELECTROMAGNETIC RADIATION

is another word for all the forms of visible + invisible light

#5) If you heat any substance, and it gives off light, splitting that light with a prism gives a "fingerprint" (rainbow) that is specific for the elements in that compound.

