	A	В		С	D	E	F
1	OHR ATOM MODEL: Hydrog	CII .		What happens when an electron moves f			
2				Answer:	"Light" happens	s. But can yo	u see it?
3	Constants						
4	Speed of light (c) =	2.99E+08	m/sec				
5	Ryberg constant (R) =	-2.18E-18	J				
6	Planck's constant (h) =	6.63E-34	J•sec				
7							
8	Initial n =	3		4	5	6	7
9	Final n=	2		2	2	2	2
10	Initial E (J)=	-2.42E-19		-1.36E-19	-8.72E-20	-6.05E-20	-4.45E-20
11	Final E (J)=	-5.45E-19	-5.45E-19		-5.45E-19	-5.45E-19	-5.45E-19
12	$\Delta E(J) =$	3.02639E-19	4.08563E-19		4.5759E-19	4.8422E-19	5.003E-19
13	Frequency $(v, /sec) =$	4.56E+14	6.16E+14		6.90E+14	7.30E+14	7.55E+14
14	Wavelength (lambda) (nm) =	655	485		433	409	396
15	What light do you "see"?	Red		Blue	Violet	Violet	Violet
16						R	
17						$E = \frac{R}{n^2}$	
18	Electromagnetic Spectrum						· .
19					$\triangle E = Abs$	_	Linitial)
20	Wavelength Range (nm)	Color				$V = \frac{\Delta \mathbf{E}}{\mathbf{E}}$	
21						h	
22	185-380	Ultraviolet				$\lambda = \frac{\mathbf{c}}{-}$	
23	380-450	Violet				ν -	
24	450-495	Blue			1		
25	495-550	Green		T	HE ELEC	TPOM	ACNET
26	550-570	Yellow-Green	n		HE ELEC		AGIL
27	570-590	Yellow		Wavelength	10 ³ 10 ² 10 ¹	1 10-1	10 ⁻² 10 ⁻³ 10 ⁻⁴
28	590-620	Orange		(in meters)	_	1 1	10 10
29	620-750	Red		Size of a	longer	(1)	This Period
30	750-2500	Near Infrared	1	wavelength	Soccer Field House	Baseball	
31				Common name of wave	PADI	O WAVES	INE
32	G:	Gamma			KALII		IN THE STATE OF TH
33	X:	X-ray			75.05		MICROWAVES
34	U:	Ultraviolet (UV	,				
35	V:	Visible	"ROYO	Sources			The state of the s
36	I:	Infrared			'AM 'Cavity	M Radio Microwave Oven	Radar
37	M:			Frequency (waves per	Radio		
38	R:	Radiowave		second)	10 ⁶ 10 ⁷	10 ⁸ 10 ⁹ 10 ¹⁰	10 ¹¹ 10 ¹²
39				Energy of one photon	lower		
40				(electron volts)	10 ⁻⁹ 10 ⁻⁸ 10 ⁻⁷	10 ⁻⁶ 10 ⁻⁵ 1	0-4 10-3 10-2
41							

