- 1. Why do we study atoms?
- 2. What is atomic spectroscopy?
- 3. What is a frequency comb?
- 4. Why Potassium?
- 5. What have I done this summer?

## Why potassium?

	The Periodic Table of the Elements																
1 H Reinsen 1,00794																	2 He ***********************************
- 3	-4	1										- 5	- 6	7	- 8	9	10
Li	Be											В	C	N	0	F	Ne
620	9.012182											19.811	12.0197	11,000 To	15,0991	18,000 800.3	20.1707
11	12	1										13	14	15	16	17	18
Na	Mg											Al	Si	P	S	CI	Ar
Sodium	21.3050											Aluminum 26. 931 938	SHOW SECRET	20.575360	50%r 32.066	35.4517	70.948
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As.	Se	Br	Kr
79.3983	40,879	44.99.9910	47,857	50,9415	51,9961	Mingrood 54,558049	55.845	58,5500.00	58,8534	65,348	65.39	68,723	72.60	TK,52360	78.96	29,504	8530
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb	Sr	Y	Zr	Nb	Mo	Te	Ru	Rh	Pd	Ag	Cd	In	Sm	Sb	Te	I	Xe
85,4076	17,62	98,96585	91,224	\$2,90636	95.94	(20)	101,07	140, 96550	106.42	107,8582	112.411	114,616	118.730	121,700	127.60	126,98447	131.29
55	55	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86 B
Cs	Ba	La	Hſ	Ta	W	Re	Os	Ir idea	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
132,9054	137,327	138,9063	176.49	110.9479	185.94	196,207	190.25	189,217	195,076	186,86885	200.5k	2043433	2812	206,98638	(289)	(210)	(212)
87	88	89	104	105	106	107	108	109	110	111	112	113	114				
Frences	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt							l		
(225)	(216)	(327)	\$150	(262)	(263)	(261)	(265)	(2010)	(269)	62720	(222)						-
				58	59	60	61	62	63	64	65	66	67	68	69	70	71
				Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
				Corne	Name dymans	Production	Donobya	Serven	Egraphin	Codeboom	Tuffree	Dynamic	Hillman	Different	Techni	Yearlow	Laprouse
				90	91	92	Q3.	94	Q4	96	97	98	90	100	101	102	103
				Th	Pa	Ü	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
				Thorses	Perturbation	Treatm	Seteor	Berran	American	Corne	Deleter	Calmenn	Environment	Familian	Nashbrian	Nitrolan	Levenson
				232,0091	210.00000	138.0259	(215)	CHIC	(240)	(217)	(80)	g51)	(252)	(237)	(288)	(23%)	(202)