Name	Class
Name	Ulass

Due Date:				

hydrogen 1 H 1.0079 lithium 3	beryllium 4 Be		in the second	e.	10	c		c		10	4.00	=	boron 5	carbon 6 C	nitrogen 7	oxygen 8	fluorine 9	He 4.0026 neon 10
6,941 sodium 11	9,0122 magnesium 12												10,811 aluminium 13	12.011 silicon 14	14,007 phosphorus 15	15,999 sulfur 16	18,998 chlorine 17	20,180 argon 18
Na	Mg												ΑI	Si	P	S	СI	Ar
22.990 potassium	24.305 calcium		scandium	titanium	vanadium	chromium	manganese	iron	cobalt	nickel	copper	zine	26.982 gallium	28.096 germanium	30.974 arsenic	32.065 selenium	35,453 bromine	39,948 krypton
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
39.098 rubidium 37	40.078 strontium 38	i	44.966 yttrium 39	47.867 zirconium 40	50.942 niobium	51,996 molybdenum 42	54.938 technetium 43	55.845 ruthenium 44	58.933 rhodium 45	58.693 palladium	63.546 silver 47	65.39 cadmium 48	69.723 Indium 49	72.61 tin <b>50</b>	74.922 antimony 51	78.96 teTurium 52	79.904 lodine 53	83.90 xenon 54
Rb	Sr		Ÿ	Źr	Nb	Mo	Tc	Ru	Rh	Pd		Cd	l'n	Sn	Sb	Тe	33	Xe
85.468	87.62		88.906	91.224	92.906	95.94	[98]	101.07	102.91	106.42	Ag	112.41	114.82	118.71	121.76	127.60	126.90	131.29
caesium 55	barium 56	57-70	lutetium 71	hafnium 72	tantalum 73	tungsten 74	rhenium 75	osmium 76	ridium 77	platinum 78	gold 79	mercury 80	thallium 81	lead 82	bismuth 83	potonium 84	astatine 85	radon 86
Cs	Ba	*	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
132,91 francium	137,33 radium		174,97 lawrencium	178,49 rutherfordium	180,95 dubnium	183,84 seaborgium	186.21 bohrium	190,23 hassium	192.22 meitnerium	195,08 ununnitium	196,97 unununium	200.59 ununbium	204.38	207.2 ununquadium	208,98	[209]	[210]	[222]
87	88	89-102	103	104	105	106	107	108	109	110	111	112		114				
Fr	Ra	* *	Lr	Rf	Db	Sg	Bh	Hs	Mt		Uuu			Uuq				
	hanide inide s		lanthanum 57 La 138,91 actrium 89 Ac	certum 58 Ce 140.12 thorium 90 Th	praseodymium 59 Pr 140.91 protactinium 91 Pa 231.04	100 N d 144,24 uranium 92 U 238,03	promethium 61 Pm [145] nepturaum 93 Np [237]	[269]	europium 63 Eu 151,96 americium 95 Am	gadolnium 64 Gd 157.25 curium 96 Cm	terbium 65 Tb 158.93 berkelium 97 Bk	dyspresium 66 Dy 162.50 californium 98 Cf [251]	holmlura 67 Ho 164,93 einsteinium 99 Es	erblum 68 Er 167.26 fermium 100 Fm	thulium 69 Tm 168.93 mendelevium 101 Md [258]	yfferblum 70 Yb 173.04 nobelium 102 No		

<u>Purpose:</u> To demonstrate understanding of the arrangement of the periodic table of elements by creating a new table based on properties and characteristic of objects.

## Requirements:

- 1. Create a periodic table out of everyday objects. You may use pictures from magazines, catalogs, clipart, photographs, or actual small objects. (no real candy or food) You can use pictures of candy or food.
- 2. Glue the pictures or objects to the board.
- 3. Use your notes and textbook, to help with understanding and the organization of your periodic table.
- 4. The table must have a minimum of 5 periods (rows) and 8 families (columns)
- 5. Include a title on the top of your poster (The Periodic Table of \_\_\_\_\_), your name, teacher and official class.
- 6. The groups or families:
  - -must be named (you can use the name or a characteristic of the actual items)
  - -must have a common property

## 7. The Periods:

- -must change from left to right in some way similar to the Periodic Table of Elements, except for the 1<sup>st</sup> period which is different from all the others like hydrogen and helium
- -the first period has only 2 objects or items
- -periods 2-5 need to have 8 objects or items
- --must change from left to right in a logical way (increase in some format)
- 8. Make a key/legend (see rubric) to explain how the table is arranged. Be sure to include names of each group or family, which properties they have in common, and explain how the periods change from left to right. Compare your table to Mendeleev's Table. Your key/legend should be on a separate page and should be approximately two paragraphs.
- 9. Make sure to refer to the rubric. Use it to be sure you have included all requirements.

## Grading Rubric- Periodic Table Poster Project

	4	3	2	1
Number of families and periods	Contains 8 Families and 5 periods	Contains 7 Families or 4 periods	Contains 6 Families or 3 periods	Contains less than 6 Families or less than 3 periods
Organization of families	8 Families are numbered, all related	Families not numbered or, 1-2 items not related	Families not numbered, 3-4 items are not related	Items within the families have no relation to each other
Organization of periods	5 periods are numbered and named, all related, change from left to right in a logical way	Periods not numbered or named, 1 item does not change logically	Periods not numbered or named, 2-3 items do not change logically	Items within the periods have no relation to each other
Key/Legend	explains similar properties of families explains how items increase in periods explains how periods change explains why 1st period is different	Missing 1 of the requirement	Missing 2 of the requirements	Key missing or missing more than 3 requirements
Mechanics/Organization	contains no grammatical/spelling errors  effort is evident  Periodic Table organization makes sense neat /organized	contains 1-2 grammatical/spelling errors some effort evident Periodic Table is somewhat neat/organized	contains 3-4 grammatical/spelling errors minimum effort put forth Periodic Table is not organized	contains more than 4 grammatical/spelling errors no organization nor effort sloppy