

1d	Harvard University was founded on October 28, 1636. It was the first college in the United States. Do you have to go to college to be a scientist OR can you be a scientist now? Explain.
2d	The chewing gum patent was granted in 1869. List ways that gum can be healthy? List ways gum is unhealthy?
*3d	Using the Periodic Table of Elements. Spell out as many words as you can, using the chemical symbols in correct form.
4d	Tear off four centimeters of tape. Fold the tape and stick it on the backside of your hand. See what items you are able to pick up with the tape. Repeat multiple times.
5d	Imagine that trees have become endangered and everyone has to reduce paper usage to one product. What one paper product would you continue to use? Why? How would you get along without some of the paper items you currently use?
6d	List the letters of the alphabet down a piece of paper. Write the names of foods beginning with each letter. Go back and classify (group) the foods on your list into healthy foods and 'junk foods'.
7d	Place a SAFE item into a non-transparent bag. Have someone put their hand in the bag, NO PEEKING!, only the sense of touch may be used. Have the person describe the item and then guess what it is. Repeat as many times as you'd like to OR have a family member find an item and you GUESS!
8d REQ	<b>SUBMIT for credit this week *SEE Cover Letter Section #2 for formatting</b> <b>After finishing the 4 assignments in your notebook, analyze your data/work and reflect on your experience.</b>

#3d

## Periodic Table of Elements

State of Matter SYMBOL- shaded

Black = Solid

Blue = Liquid

Red = Gas

Outline the MAJOR groups

Metals in BLUE

Metalloids in GREEN

NONMETALS in YELLOW

Alkali Metal

Alkaline Earth

Transition Metal

Other metals

Noble Gas

Lanthanide

Actinide

1 IA 1A																	18 VIII 8A	
1 H Hydrogen 1.008	2 IIA 2A																	2 He Helium 4.003
3 Li Lithium 6.941	4 Be Beryllium 9.012																	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305	3 IIIB 3B	4 IVB 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8 VIII 8	9 VIII 9	10 VIII 10	11 IB 1B	12 IIB 2B	13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	18 VIII 8A	
19 K Potassium 39.098	20 Ca Calcium 40.078	21 Sc Scandium 44.956	22 Ti Titanium 47.88	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.938	26 Fe Iron 55.833	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546	30 Zn Zinc 65.39	31 Ga Gallium 69.723	32 Ge Germanium 72.61	33 As Arsenic 74.922	34 Se Selenium 78.972	35 Br Bromine 79.904	36 Kr Krypton 83.80	
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.71	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.905	54 Xe Xenon 131.29	
55 Cs Cesium 132.905	56 Ba Barium 137.327	57-71																
87 Fr Francium 223.020	88 Ra Radium 226.025	89-103																
		104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [277]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [271]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Nh Nihonium [284]	114 Fl Flerovium [289]	115 Uup Ununpentium [288]	116 Lv Livermorium [293]	117 Ts Tennessine [289]	118 Og Oganesson [294]		
		57 La Lanthanum 138.905	58 Ce Cerium 140.115	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967		
		89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.083	99 Es Einsteinium 252.083	100 Fm Fermium 257.095	101 Md Mendelevium 258.10	102 No Nobelium 259.10	103 Lr Lawrencium 262.10		