Name:	Period: _	Date:	
Title: Periodic Table Identification (Coloring)	Video: 1.4 & 5.1	Textbook: Ch. 1.3 (pp 20+), 5.1, 5.2, & 5.3 (pp 131+)	
TEKS: 5A-Explain the use of chemical and physical properties in the historical development of the periodic table; 5B-Use the Periodic Table to <i>identify</i> and <i>explain</i> the			
properties of chemical families, including alkali metals, alkaline earth metals, halogens, noble gases, and transition metals; 5C-Use the Periodic Table to <i>identify</i> and <i>explain</i>			
periodic trends, including atomic and ionic radii, electronegativity, and ionization energy.			

Identify the following groups of elements in the periodic table and color them according to the legend you create.

Color in Order: 1) Metalloids, 2) Halogens, 3) Noble Gases, 4) Alkali Metals, 5) Alkaline Earth Metals, 6) Transition, Metals, 7) Inner Transition Metals, 8) Other Non-metals, 9) Other Metals Color coded legend \rightarrow 18 **8A** 1A 2 1 Atomic number -14 н He 1 Si 2 Symbol 13 14 15 16 17 1.008 4.003 2A 3A **4A** 5A 6A 7A Hydrogen Helium 28.086 Atomic mass 3 4 5 6 7 8 9 10 Silicon F Name в С Ν Li Be 0 Ne 2 6.941 10.812 12.011 14.007 15.999 18.998 20.180 9.012 Lithium Beryllium Boron Carbon Nitrogen Oxygen Fluorine Neon 11 12 13 15 16 18 14 17 Mg Si Ρ S CI AI Ar Na 3 3 4 5 6 7 L<mark>8</mark> 9 10 11 12 22.990 26.982 28.086 32.066 35.453 39.948 24.305 30.974 7B **8B** 3B **4B** 5**B 6B** 1B 2B Sulfur Sodium lagnesiun Aluminum Silicon osphoru Chlorine Argon 27 19 20 21 22 23 24 25 26 28 29 30 31 32 33 34 35 36 κ Sc Ti v Cr Mn Fe Со Ni Cu Zn Ge Se Br Kr Са Ga As 4 40.078 44.956 47.867 50.942 51.996 54.938 55.845 58.933 58.693 63.546 65.38 69.723 74.922 78.96 79.904 83.798 39.098 72.64 Potassiu Calcium Scandiur Titanium Vanadiu Cobalt Nickel Copper Zinc Gallium Seleniun Bromine Chromiu langanes Iron Germaniu Arsenio Krypton 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 Υ Pd Sb Ι Rb Sr Zr Nb Мо Tc Ru Rh Cd In Sn Те Xe Ag 5 85.468 87.62 88.906 91.224 92.906 101.07 102.906 107.868 112.412 114.818 118.711 121.760 127.60 126.904 131.294 95.96 (98) 106.42 Rubidium Yttrium Zirconium Niobium Rhodium Palladium Silver Cadmium Indium Tellurium lodine Strontium olybdenu Technetiur Rutheniun Tin Antimony Xenon 55 56 71 72 73 74 75 77 79 80 81 82 83 85 86 76 78 84 W Ir Cs Ba Lu Hf Та Re 0s Pt Au Hg ТΙ Pb Bi Po At Rn 6 132.905 137.328 174.967 180.948 183.84 207.2 178.49 186.207 192.217 196.967 200.59 204.383 208.980 (209)(210)(222) 190.23 195.085 Cesium Barium Lutetium Hafnium Tantalum Tungsten Rhenium Platinum Gold Mercury Thallium Lead Rismuth Polonium Astatine Radon Osmium Iridium 87 88 103 104 106 107 109 111 105 108 110 Mass numbers in parentheses are those of Fr Ra Lr Rf Db Sg Bh Mt Ds Hs Rg 7 the most stable or most common isotope. (262)(271) (276) (223)(226)(267)(268)(272)(270)(281)(280)Dubnium Bohrium rmstadti Francium Radium wrenciu Rutherford eaborgiu Hassium leitneriu Roentgeniu 57 58 59 60 61 62 63 64 65 68 69 70 66 67 Ce Pr Nd Pm Sm Eu Gd Tb Dy Но Er Tm Yb La Lanthanide Series 138.905 140.116 140.908 144.242 (145)150.36 151.964 157.25 158.925 162.500 164.930 167.259 168.934 173.055 Gadoliniu Holmium Erbium Thulium Ytterbium anthanu Cerium seodymiu Neodymiu romethiu Samarium Europium Terbium Dysprosiu 97 100 89 90 91 92 93 94 95 96 99 101 102 98 Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No **Actinide Series** (247) 232.038 231.036 238.029 (237)(244)(243)(247)(251)(252)(257)(258)(259)(227) Neptuniun Actinium Thorium rotactinium Uranium Plutoniun Americium Curium Berkelium Californiun Einsteiniur Fermium endeleviu Nobelium

Title: Periodic Table Group Properties	Textbook: Ch. 5.3 (pp 140+)

TEKS: 5B-Use the Periodic Table to *identify* and *explain* the properties of chemical families, including alkali metals, alkaline earth metals, halogens, noble gases, and transition metals.

Identify the properties of the following chemical families.

Remember the general properties of metals and nonmetals: Metals are typically good conductors of heat and electricity. Metals typically are solids at room temperature, have luster, and are malleable and ductile. Nonmetals are poor conductors of heat and electricity. Nonmetals are found in all three phases (solids, liquids, and gasses) at room temperature. Solid nonmetals are typically brittle and have lower melting points.

