

Grade 7 Periodic Table Assignment – Answers

Name: _____

Identify some common characteristics or properties of the following groups of elements:

Alkali Metals (blue) Li, Na, K, Rb, Cs, Fr

soft metal; Low melting and boiling points; Highly reactive

Alkali Earth Metals (brown) Be, Mg, Ca, Sr, Ba, Ra

Shiny; reactive; low density; low melting/boiling points; form oxides

Transition Metals (green) Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Cd, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Rf, Db, Sg, Bh, Hs, Mt, Ds, Rg, Cn

Metallic; conduct electricity; high melting and boiling points; malleable; magnetic

Post-Transition Metals (Other Metals) (pink) Al, Ga, In, Sn, Tl, Pb, Bi, Uut(Nh), UUq(Fl), UUp(Mc), Uuh(Lv)

Solid metals; good conductors of heat and electricity; high density

Metalloids (Semi metals) (orange) B, Si, Ge, As, Sb, Te, Po

metallic looking; brittle; semiconductors

Non-metals (yellow) H, C, N, O, P, S, Se

Very brittle; poor conductors, poor reflectors, less dense; building blocks of life

Halogens (red) F, Cl, Br, I, At, Uus(Ts)

Low boiling and melting points; gas to solid down table; toxic vapours; highly reactive

Noble Gases (purple) He, Ne, Ar, Kr, Xe

odourless/colourless; non-reactive; fluoresces when electrified

Lanthanides/Actinides (light blue) La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Ac, Th, Pa, U, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr

Heavy and dense; many are radioactive, magnetic