Rare earth elements

21 Sc Scandium — **Scandium:** Atomic weight 21, used to strengthen aluminum alloys

39 Y Yttrium — **Yttrium:** Atomic weight 39, used in superconductors and light sources

57 La Lanthanum — **Lanthanum:** Atomic weight 57, used to make specialty glasses and optics, electrodes and hydrogen storage

58 Ce Cerium — **Cerium:** Atomic weight 58, used to make oxidizer, for oil cracking during petroleum refining and as a yellow

59 Pr Praseodymium — **Praseodymium:** Atomic weight 59, used in magnets, lasers and as green color in ceramics and glass

60 Nd Neodymium — **Neodymium:** Atomic weight 60, used in magnets, lasers and as purple color in ceramics and glass

61 Pm Promethium — **Promethium:** Atomic weight 61, used in nuclear batteries

62 Sm Samarium — **Samarium:** Atomic weight 62, used in magnets, lasers and to capture neutrons

63 Eu Europium — **Europium:** Atomic weight 63, used to make colored phosphors, lasers and mercury-vapor lamps

64 Gd Gadolinium — **Gadolinium:** Atomic weight 64, used in magnets, optics and computer memory chips

65 Tb Terbium — **Terbium:** Atomic weight 65, used as green in ceramics and paints, and in lasers and fluorescent lamps

66 Dy Dysprosium — **Dysprosium:** Atomic weight 66, used in magnets and lasers

67 Ho Holmium — **Holmium:** Atomic weight 67, used to make lasers

68 Er Erbium — **Erbium:** Atomic weight 68, used in steel alloyed with vanadium and in lasers

69 Tm Thulium — **Thulium:** Atomic weight 69, used in portable x-ray equipment

70 Yb Ytterbium — **Ytterbium:** Atomic weight 70, used in infrared lasers and as a chemical reducer

71 Lu Lutetium — **Lutetium:** Atomic weight 71, used in specialty glass and radiology equipment

Transition metal: Describes the set of metalic elements in a central block on the periodic table

Lanthanide: Describes the series of 15 metalic elements from lanthanum to lutetium