Rare earth elements

Scandium: Atomic weight 21, used to strengthen aluminum allovs

Yttrium: Atomic

Scandium weight 39, used in superconductors Yttrium

21

Lanthanum

Cerium

58

59

60

39 and light sources

57

Lanthanum: Atomic weight

57, used to make specialty glasses and optics, electrodes and hydrogen storage

Cerium: Atomic weight 58. used to make oxidizer, for oil cracking during petroleum

refining and as a yellow Praseodymium: Atomic weight 59, used in magnets,

lasers and as green color in ceramics and glass **Neodymium:** Atomic

weight 60, used in magnets, lasers and as purple color Neodymium in ceramics and glass 61

Promethium: Atomic weight 61, used in Promethium

nuclear batteries

62 Samarium: Atomic weight 62, used in

magnets, lasers and Samarium to capture neutrons Transition metal: Describes the set of metalic elements in a central

block on the periodic table

phosphors, lasers and Europium mercury-vapor lamps 64 Gadolinium

Terhium

Holmium

Erbium

63

65

66

67

68

69

70

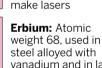
Gadolinium: Atomic weight 64, used in

Europium: Atomic weight 63. used to make colored

magnets, optics and computer memory chips Terbium: Atomic weight 65, used as green in ceramics and paints, and in lasers

and fluorescent lamps **Dysprosium:** Atomic weight 66, used in magnets and lasers

Holmium: Atomic weight 67, used to make lasers







weight 70. used in infrared lasers and as a chemical reducer Lutetium: Atomic

Ytterbium: Atomic

Lutetium

weight 71, used in specialty glass and radiology equipment

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