



Bayer Corporation has long been committed to improving science education and formally created its *Making Science Make Sense®* (*MSMS*) program in 1995. *MSMS* is an award-winning initiative that advances science literacy through hands-on, inquiry-based science learning, employee volunteerism and public education.

Hundreds of employee-volunteers at Bayer sites across the country engage students in hands-on, inquiry-based science learning during classroom and extra-curricular programs. Many of these sites also are part of a nationwide network of education and corporate partners who are reforming the way science is taught and learned at the elementary school level.

As a science and research-based company, Bayer Corporation has a solid stake in helping to ensure that today's students are well prepared for tomorrow's workplace, regardless of the careers they choose. Bayer's commitment stems from the fact that new technologies, concepts and increasing global market competition will continue to demand a workforce that is flexible, scientifically literate and equipped with the critical-thinking, problem-solving and team working skills fostered by a quality science education.



PERIODIC TABLE OF THE ELEMENTS

Half-Shaded

Iron 26

Ruthenium 44

Osmium 76

Sometimes Compound Form



Oxygen 8

Sulfur 16

9.

Tellurium 52

olonium 84

LV

A synthetic element that is not present in

the environment. Used only in research.

16

Fluorine 9

Chlorine 17

P Br

odine 53

Astatine 85



Neon 10

Argon 18

D.

Krypton 36

Xenon 54

Lithium 3



odium 11



Rubidium 37



Cesium 55



rancium 87







Calcium 20





Strontium 38



Barium 56





Radium 88 Glow-in-the-dark paint

Actinium 89 Dangerously radioactive and found naturally in uranium ores. 227.028

Yttrium 39

0

anthanum 57

Actinoid Series

Used as:

Chemical Symbol

Name and Atomic Number

Elemental Form

Raw Material For Atomic Weight

Indicates Most Stable Isotope

Alloy, Blend or Mixture

Element 00

Titanium 22

Zirconium 40

Hafnium 72

RF

Lanthanoid Series

A synthetic element that is not present in the environment.

Db

/anadium 23

Niobium 41

Tantalum 73

A synthetic element that is not present in the environment.

Ce: Cerium 58

Th: Thorium 90

A synthetic element that is not present in the environment.

Pa: Protactinium 9

Sg

ating for car parts

Molvbdenum 42

Lubricants
Source of radio isotopes
95.94

ingsten 74

Welding electrode Lamp filaments, TV Rocket nozzles Cutting and boring tools 183.85

Appearance in nature:

Element Form

Visit our interactive periodic table at MakingScienceMakeSense.com

Manganese 25

Tools, axles Safes, **plows**

Compound Form

- A synthetic element that is not present in the environment.

Bh

Rhenium 75

U: Uranium 92

assium 108 A synthetic element that is not present in the environment.

Hs

Mt eitnerium 109

Iridium 77

Cobalt 27

Razor blades

Rhodium 45



A synthetic element that is not present in the environment.

Ds



At room temperature the element is:

Natural solid

Man-made solid

Copyright: Assn. of the Dutch Chemical Industry

Copper 29

Statue of Liberty Bells, carillons

Silver 47

Gold 79

Au

Light Blue

Dark Blue

Nickel 28

nives, forks, spoons rucibles, white gold

TO THE PO

Pt Pt

Platinum 78

Palladium 46

Currently has no use outs of basic research.



Rg

Nitrogen 7

hosphorus 15

Arsenic 33

Antimony 51

Bismuth 83

Uup

synthetic element

that is not present in

Used only in research

Carbon 6



iermanium 32

Reflector in projectors Wide-angle lenses Dentistry 72.59

Mill Sn

Coins
Organ pipes
Opalescent glass, enamel
118.71

Tin 50

ead 82







Indium 49

Thallium 81

Umf

nuntrium 113

- A synthetic element that is not present in the environment. Used only in research. (284)

o Solar cells, mirrors - Regulator in nuclear por Photo cells, **transistors** Blood and lung research t 114.82



















Zinc 30

















A synthetic element that is not present in the environment.
 Used only in research.

A synthetic element that is not present in

the environment. Used only in research.

Tm: Thulium 69

A synthetic element that is not present in the environment. Used only in research.

Uus

Lu: Lutetium 71

it is not present in

Uuo

Radon 86

Inunoctium 118





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MakingScienceMakeSense.com











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