

1



Hydrogène

3



Lithium

Be



Berylliu

11

Na



Sodium

Mg



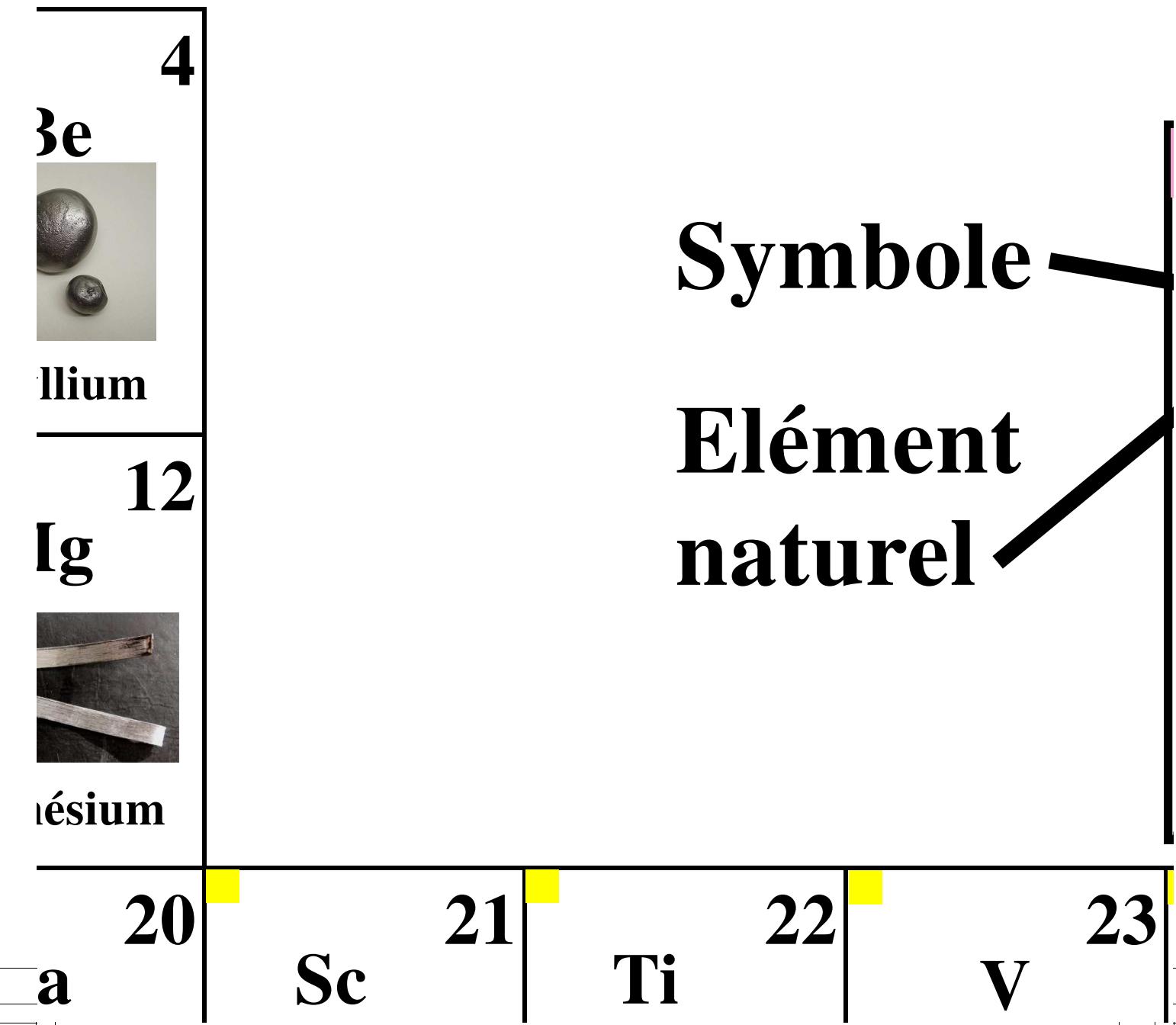
Magnésiu

19

K

Ca

# Classi



# Séparation périodique

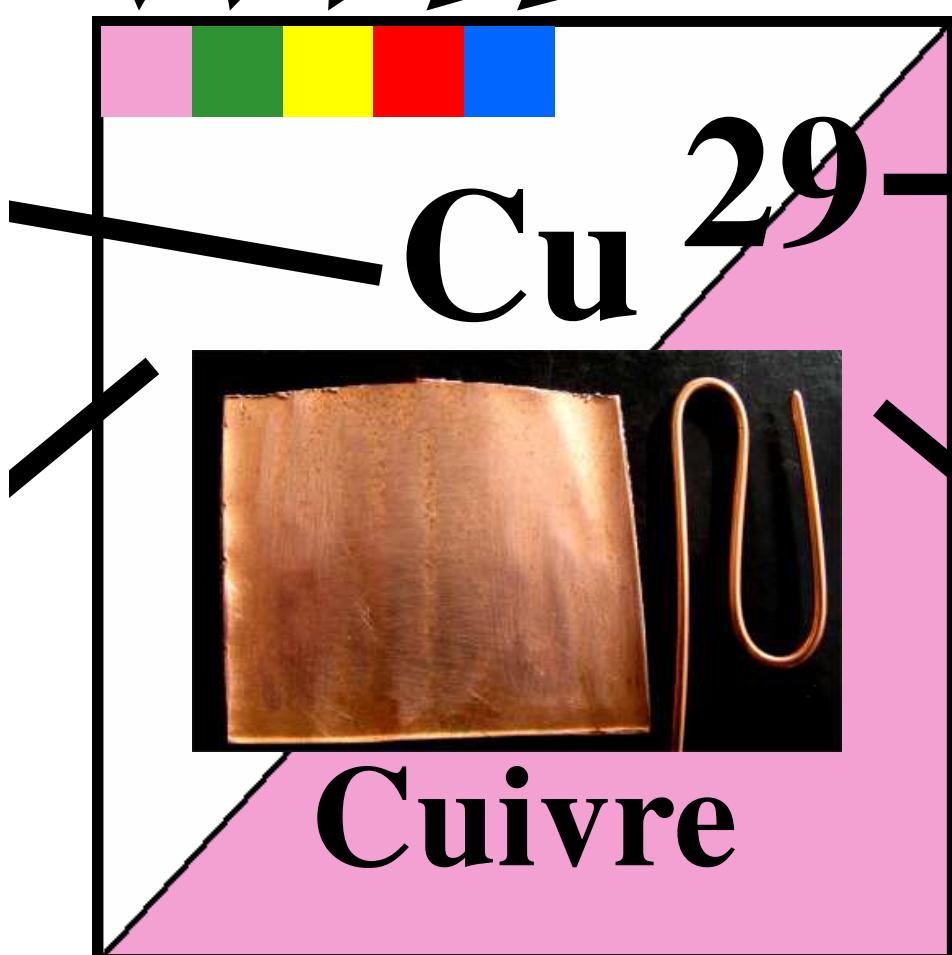
Fabriqué lors du Big Bang

Fabriqué par spallation (rayons cosmiques)

Fabriqué au cœur des étoiles

Fabriqué lors de l'explosion d'une étoile (supernova)

Fabriqué par l'homme



N° atomique

artificiel

Cuivre

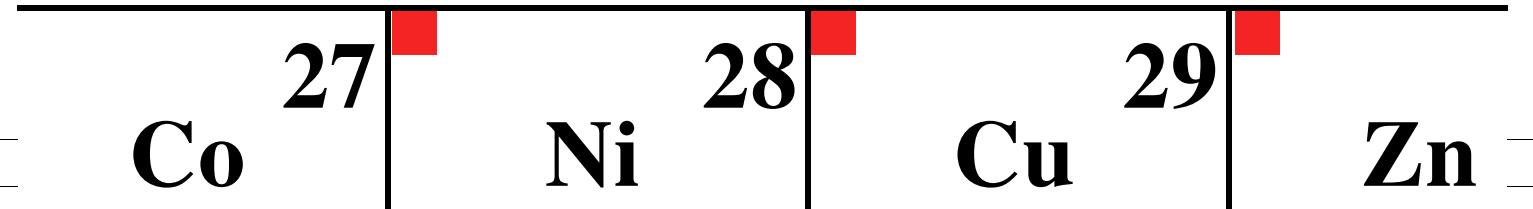


# périodique (

Méta  
supernova)

nique

ficiel



# des éléments

## tal | Non-métal

	B	5	C	6	N	7
						
	Bore		Carbone		Azote	
	Al	13	Si	14	P	15
						
	Aluminium		Silicium		Phosphore	
	Ga	31	Ge	32	As	33
	In					

nts



**K**



Potassium

**Ca**



Calcium

**37**

**Rb**



Rubidium

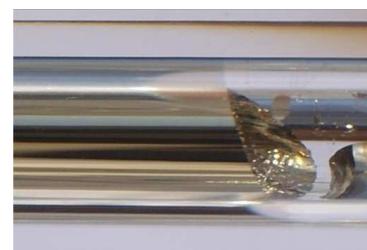
**Sr**



Strontium

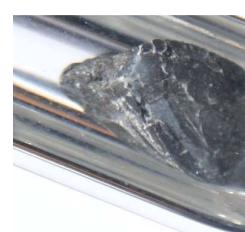
**55**

**Cs**

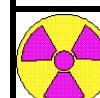


Césium

**Ba**



Baryum

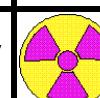


**87**

**Fr**



Francium



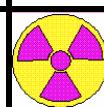
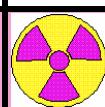
**Ra**



Radium

**a**

cium

**Sc****Scandium****Ti****Titane****V****Vanadium****38****r****tium****Y****Yttrium****39****Zr****Zirconium****41****Nb****Niobium****56****3a****yum****L****Hafnium****72****Ta****Tantale****88****89-103****ka****lium****A****104****Rf****Rutherfordium****105****Ha****Hahnium**

**Cr**



1

Chrome

**Mn**



**Fe**



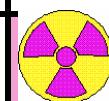
41

**Mo**



Molybdène

42



**Tc**



Technétium

43

**Ru**



Ruthénium

73

**W**



Tungstène

74

**Re**



Rhénium

75

**Os**



Osmium

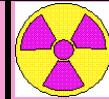
105



106

**Sg**

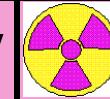
Seaborgium



107

**Ns**

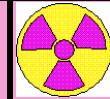
Nielsbohrium



108

**Hs**

Hassium



**N**

Mei

**Co**



Cobalt

**Ni**



Nickel

**Cu**



Cuivre

**Zn**



Zinc

**45**

**Rh**



Rhodium

**46**

**Pd**



Palladium

**47**

**Ag**



Argent

**Cd**



Cadmiu

**77**

**Ir**



Iridium

**78**

**Pt**



Platine

**79**

**Au**



Or

**Hg**



Mercu

**109**



**Mt**

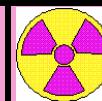
Meitneirium



**110**

**Ds**

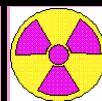
Darmstatium



**111**

**Rg**

Roentgenium



**Cr**

Copernic

In



Indium

Ga



Gallium

Ge



Germanium

As



Arsenic

48

Id



Indium

In



Indium

49 50

Sn



Étain

51

Sb



Antimoine

80

Hg



Mercury

Tl



Thallium

81 82

Pb



Plomb

83

Bi



Bismuth

112



Cn

Rhenium

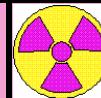
113



Nihonium

114

Flerovium



115

Moscovium

**Se**



Sélénium

**Br**



Brome

**Kr**



Krypton

**51**

**Te**



Tellure

**52**

**I**



Iode

**53**

**Xe**



Xénon

**54**



**83**

**Po**



Polonium



**84**

**At**

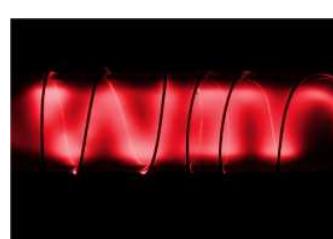


Astate



**85**

**Rn**



Radon

**86**



**115**

**Lv**

**m**

Livermorium



**116**

**Ts**

Tennessee



**117**

**Og**

Oganesson

**118**



L

Lanthanides

A

Actinides

ides

57

La



Lanthane

58

Ce



Cérium

59

Pr

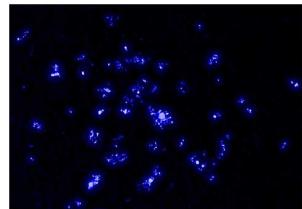


Praséodyme

es

89

Ac



Actinium

90

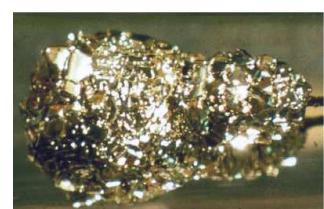
Th



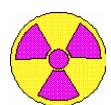
Thorium

91

Pa



Proactinium



Élément radioactif

Seaborgium

Nielsbohrium

Hessium

Mei

59

Nd

60

Pm

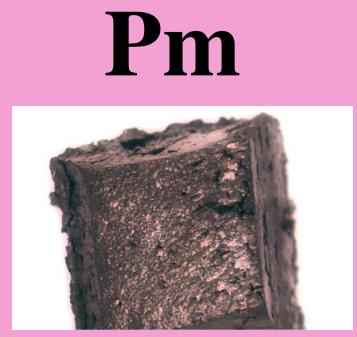
61

Sm



'me

Néodyme



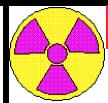
Prométhium



Samarium

F

91



U



um



Uranium

92

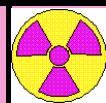


Np



Neptunium

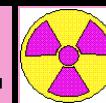
93



Pu

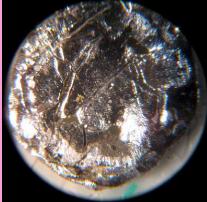
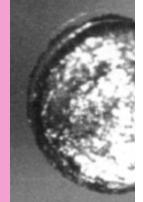


Plutonium

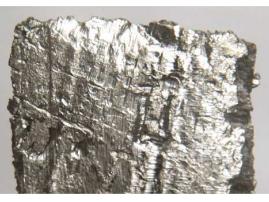


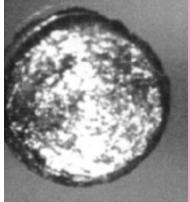
A

<b>Eu</b>  Europium	<b>Gd</b>  Gadolinium	<b>Tb</b>  Terbium	<b>Dy</b>  Dyspro
---	--	--	--

 <b>Am</b>  Américium	 <b>Cm</b> Curium	 <b>Bk</b> Berkélium	 <b>Cf</b>  Califor
--	---	--	---

Solide Liquide Gaz à la

66 Dy  sprosium	67 Ho  Holmium	68 Er  Erbium	6 Tm  Thulium
--	--	--	---

98 Cf  ifornium	99 Es 	100 Fm 	101 Md 
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la température ordinaire



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Réalisation : Alain ROBERT

**Réalisation : Alain ROBERT**