



From *Education
in Chemistry*
rsc.li/2pLxbOq

The history of the periodic table

Use these images to
illustrate the table's
development

Dalton's Atoms

ELEMENTS

	Hydrogen	1		Strontian	46
	Azote	5		Barytes	68
	Carbon	5		Iron	50
	Oxygen	7		Zinc	56
	Phosphorus	9		Copper	56
	Sulphur	13		Lead	90
	Magnesia	20		Silver	190
	Lime	24		Gold	190
	Soda	28		Platina	190
	Potash	42		Mercury	167



Döbereiner's Triads

	Elements	Symbol	Atomic Mass
1	Lithium	Li	6.9
	Sodium	Na	23
	Potassium	K	39
2	Calcium	Ca	40.1
	Strontium	Sr	87.6
	Barium	Ba	137.3
3	Chlorine	Cl	35.5
	Bromine	Br	79.9
	Iodine	I	126.9
4	Sulfur	S	32
	Selenium	Se	79
	Tellurium	Te	128

Lothar Meyer's periodic table

	4 werthig	3 werthig	2 werthig	1 werthig	1 werthig	2 werthig
	-	-	-	-	Li = 7,03	(Be = 9,3?)
Differenz =	-	-	-	-	16,02	(14,7)
	C = 12,0	N = 14,04	O = 16,00	Fl = 19,0	Na = 23,05	Mg = 24,0
Differenz =	16,5	16,96	16,07	16,46	16,08	16,0
	Si = 28,5	P = 31,0	S = 32,07	Cl = 35,46	K = 39,13	Ca = 40,0
Differenz =	89,1 / 2 = 44,55	44,0	46,7	44,51	46,3	47,6
	-	As = 75,0	Se = 78,8	Br = 79,97	Rb = 85,4	Sr = 87,6
Differenz =	89,1 / 2 = 44,55	45,6	49,5	46,8	47,6	49,5
	Sn = 117,6	Sb = 120,6	Te = 128,3	J = 126,8	Cs = 133,0	Ba = 137,1
Differenz =	89,4 = 2*44,7	87,4 = 2*43,7	-	-	(71 = 2*35,5)	-
	Pb = 207,0	Bi = 208,0	-	-	(Tl = 204?)	-



Mendeleev's periodic table

H							
Li	Be	B	B	N	O	F	
Na	Mg	Al	Si	P	S	Cl	
K	Ca		Ti	V	Cr	Mn	Fe, Co, Ni
Cu	Zn			As	Se	Br	
Rb	Sr	Y	Zr	Nb	Mo		Ru, Rh, Pd
Ag	Cd	In	Sn	Sb	Te	I	
Cs	Ba	Di?	Ce?				
		Er?	La?	Ta	W		Os, Ir, Pt
Au	Hg	Tl	Pb	Bi			
			Th		U		

Mendeleev's periodic table, 2

H							
Li	Be	B	B	N	O	F	
Na	Mg	Al	Si	P	S	Cl	
K	Ca	Eka-B	Ti	V	Cr	Mn	Fe, Co, Ni
Cu	Zn	Eka-Al	Eka-Si	As	Se	Br	
Rb	Sr	Y	Zr	Nb	Mo		Ru, Rh, Pd
Ag	Cd	In	Sn	Sb	Te	I	
Cs	Ba	Di?	Ce?				
		Er?	La?	Ta	W		Os, Ir, Pt
Au	Hg	Tl	Pb	Bi			
			Th		U		



Mendeleev's periodic table, 3

H							
Li	Be	B	B	N	O	F	
Na	Mg	Al	Si	P	S	Cl	
K	Ca	Sc	Ti	V	Cr	Mn	Fe, Co, Ni
Cu	Zn	Ga	Ge	As	Se	Br	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru, Rh, Pd
Ag	Cd	In	Sn	Sb	Te	I	
Cs	Ba	La	Hf	Ta	W	Re	Os, Ir, Pt
Au	Hg	Tl	Pb	Bi	Po	At	
			Th		U		



Mendeleev's periodic table, 4

	H							
He	Li	Be	Bc	C	N	O	F	
Ne	Na	Mg	Al	Si	P	S	Cl	
Ar	K	Ca	Sc	Ti	V	Cr	Mn	Fe, Co, Ni
	Cu	Zn	Ga	Ge	As	Se	Br	
Kr	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru, Rh, Pd
	Ag	Cd	In	Sn	Sb	Te	I	
Xe	Cs	Ba	La	Hf	Ta	W	Re	Os, Ir, Pt
	Au	Hg	Tl	Pb	Bi	Po	At	
Rn				Th		U		

Today's periodic table

