Today in Chemistry History

compound interest

8th February – Dmitri Mendeleev's birthday (1834)

Dmitri Mendeleev

Born

8 February 1834

Died

2 February 1907

? Md Mendelevium

Mendeleev created a version of the periodic table in which he left gaps for undiscovered elements and predicted what their properties would be. Element 101, mendelevium, is named after him.

The elements of Mendeleev's periodic table (1869)

H																	He
Li	Be											B	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		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og

La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

● Elements known at the time when Mendeleev's table was first published

● Elements not known at the time when Mendeleev's table was first published

● Elements whose properties Mendeleev predicted before they were discovered

Mendeleev arranged his table by periodic trends and used these to predict the properties of several unknown elements. When these elements were eventually discovered years later, their properties closely matched his predictions. He didn't predict the noble gases and struggled to incoporate them into his table once they had been discovered in the 1890s.

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