Periodic table's seventh row finally complete

Four new chemical elements have been added to the periodic table, completing its seventh period (or row) – the first to be included in the table since 2011, when elements 114 and 116 were added

PERIODIC TABLE OF ELEMENTS *(updated)*

Arrangement of chemical elements, ordered by their atomic number, electron configurations, and recurring chemical properties *(generally, elements are metals on lefthand side, and non-metals on righthand side)*

1 H																	2 He
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
55 Cs	56 Ba	57-71	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89-103	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Uut	114 Fl	115 Uup	116 Lv	117 Uus	118 Uuo

57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu
89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr

Colour key

- *Alkali metal*
- *Alkaline earth metal*
- *Lanthanide*
- *Actinide*
- *Transition metal*
- *Post-transition metal*
- *Metalloid*
- *Polyatomic nonmetal*
- *Diatomic nonmetal*
- *Noble gas*
- *Unknown chemical properties*

FOUR NEW ELEMENTS *(temporary names)*

113 Uut – Ununtrium

114 Fl – Flerovium

115 Uup – Ununpentium

116 Lv* – Livermorium

117 Uus – Ununseptium

118 Uuo – Ununoctium

Discovered by Japanese team

Discovered by joint Russian and American teams

Discoverers invited to suggest permanent names and symbols for elements

- New elements do not appear in nature, but are unstable reactive elements made in laboratory
- Elements can be named after mythological concepts, minerals, places or countries, property or scientists

Element key

Atomic number: 113

Symbol: Uut

Element name: Ununtrium

- After ***International Union of Pure and Applied Chemistry*** accepts new names and two-letter symbol suggestions, they are presented for public review for five months, before organisation makes final decision

Sources: iupac.org, wire agencies

*Predicted to be post-transition metal

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