

Name Any Element Above 100

JEE High-Yield Topic

TopAll

The IUPAC Systematic Nomenclature for Superheavy Elements ($Z > 100$)

118

Og

Oganesson

Ununoctium / Uuo

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The Race for Superheavy Elements

International naming controversies forced IUPAC to create an impartial, temporary naming algorithm.



American Scientists
claimed Element 104



Named it Rutherfordium.



Soviet Scientists
claimed Element 104



Named it Kurchatovium.

The IUPAC Intervention

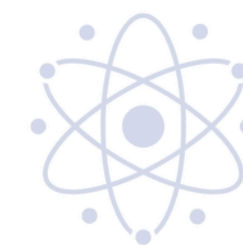
Until a discovery is proven and officially recognized, elements receive a temporary, systematic name derived directly from their atomic number (Z).

Key Takeaway: Eliminates bias and creates a universal standard while discovery is verified.



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$$E=mc^2$$



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The IUPAC Digit-Root Matrix



Memorize these 10 building blocks. They form the code for every element $Z > 100$.

0	nil	(n)	5	pent	(p)
1	un	(u)	6	hex	(h)
2	bi	(b)	7	sept	(s)
3	tri	(t)	8	oct	(o)
4	quad	(q)	9	enn	(e)

The Naming Algorithm: $Z = 120$

Break the atomic number into digits. Add the roots. Append '-ium'.



Syntax Rule: The roots are assembled in the exact order of the digits that make up the atomic number.

Deriving the 3-Letter Symbol

The symbol is simply the first letter of each root in the exact same sequence.

Un (1)

→ **U**

bi (2)

→ **b**

nil (0)

→ **n**

120

Ubn

Unbinilium

Formatting Rule: Capitalize the first letter.
Keep the second and third letters lowercase.

! JEE Trap: Don't Skip the Zero

Examiners will test your attention to detail on atomic numbers containing a '0'.

Zero (nil) is a mandatory root. Always keep the exact digit order.

Predict the name for $Z = 104$

~~Unquadium (Uq)~~

Skipped the zero. (Followed a 1-4 logic instead of 1-0-4).

Unnilquadium (Unq)

Correctly maintains the 1-0-4 digit sequence.

Trust the algorithm. Every single digit gets a root, no matter what.



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