

Subatomic Particles for Atoms, Ions and Isotopes-Practice

Use your periodic table to complete this worksheet.

	Atom/Ion/Isotope name	Standard Atomic Notation	Atomic Mass	Atomic Number	Number of Protons	Number of Electrons	Charge	Number of Neutrons
1	Strontium (isotope)	$^{90}_{38}\text{Sr}$	90	38	38	38	0	52
2	Beryllium (ion)	$^9_4\text{Be}^{2+}$	9	4	4	2	+2	5
3	Selenium (ion)	$^{79}_{34}\text{Se}^{2-}$	79	34	34	36	-2	45
4	Aluminum (ion)	$^{27}_{13}\text{Al}^{3+}$	27	13	13	10	+3	14
5	Helium (isotope)	^3_2He	3	2	2	2	0	1
6	Arsenic (atom)	$^{75}_{33}\text{As}$	75	33	33	33	0	42
7	Lithium (isotope)	$^{11}_3\text{Li}$	11	3	3	3	0	8
8	Sodium (ion)	$^{23}_{11}\text{Na}^{1+}$	23	11	11	10	+1	12
9	Mercury (atom)	$^{201}_{80}\text{Hg}$	201	80	80	80	0	121
10	Iron (isotope)	$^{53}_{26}\text{Fe}$	53	26	26	26	0	27
11	Nitrogen (ion)	$^{14}_7\text{N}^{3-}$	14	7	7	10	-3	7
12	Nickel (ion)	$^{59}_{28}\text{Ni}^{3+}$	59	28	28	25	+3	31
13	Chlorine (isotope)	$^{36}_{17}\text{Cl}$	36	17	17	17	0	19
14	Xenon (atom)	$^{131}_{54}\text{Xe}$	131	54	54	54	0	77
15	Zinc (isotope)	$^{59}_{30}\text{Zn}$	59	30	30	30	0	29

*NOTE: when you are finished, you should have 3 atoms, 6 ions and 6 isotopes.

Subatomic Particle Gizmo Answer Sheet

Yan Bai

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name 'Yan Bai'.

Subatomic Particle Gizmo Answer Sheet:

Hibs at 150 Aidan Smith, 2025-11-06 Celebrate 150 years of Hibs Charting the highs lows and many misadventures of Hibernian FC and featuring countless characters from George Best to John McGinn via the Famous Five and the side that became world champions this is the ultimate celebration of the beloved Edinburgh sporting institution It sweeps from the founding of the club in 1875 to the triumphs and tribulations of the 21st century In 150 bitesize helpings the story of Hibs is served up in delicious fashion Who could forget the pass of the millennium or the swoon inducing swagger of sixties heartthrob Peter Marinello And who wouldn't recoil at the memory of the wine bar empire entwined in the club's darkest hour Written by a lifelong Hibee Hibs at 150 bridges the generations and peels back the layers of a century and half of Hibsteria

Teaching the Nature of Science Through Process Skills Randy L. Bell, 2008 Engage your students with inquiry based lessons that help them think like scientists This book has made such a difference in my teaching of science this school year I have had some of the most amazing science lessons and activities with my students and I attribute this to what I learned from this book I have watched my 5th grade students go from being casual observers in science to making some amazing observations that I even missed We enjoy our class investigations and the students ask for more Alyce F Surmann Sembach Middle School Teachers will relate well to the author's personal stories and specific examples given in the text especially the ones about events in his own classroom like having the grasshoppers escape into the classroom Andrea S Martine Director of Curriculum and Instruction Warrior Run School District With Teaching the Nature of Science through Process Skills author and science educator Randy Bell uses process skills you'll recognize such as inference and observation to promote an understanding of the characteristics of science knowledge His personal stories taken from years of teaching set the stage for a friendly narrative that illuminates these characteristics of scientific knowledge and provides step by step guidance for implementing inquiry activities that help children understand such important yet abstract concepts With Randy as your guide you can better adhere to current science education standards that urge teachers to go beyond teaching science content to teach children about the practice and the nature of science in a way that engages all learners in grades three through eight Investigate further More than 50 ideas and activities for teaching the nature of science to help you meet content standards A comprehensive framework to guide you in integrating the approach across the science curriculum throughout the school year and across the grade levels A goldmine of reproducible resources such as work sheets notebook assignments and more Assessment guidance that helps you measure your students nature of science understanding

Tribune for Victory and Socialism, 2008

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