

## Electron arrangements in atoms worksheet








**Electron Geometry / Steric Number Table:**

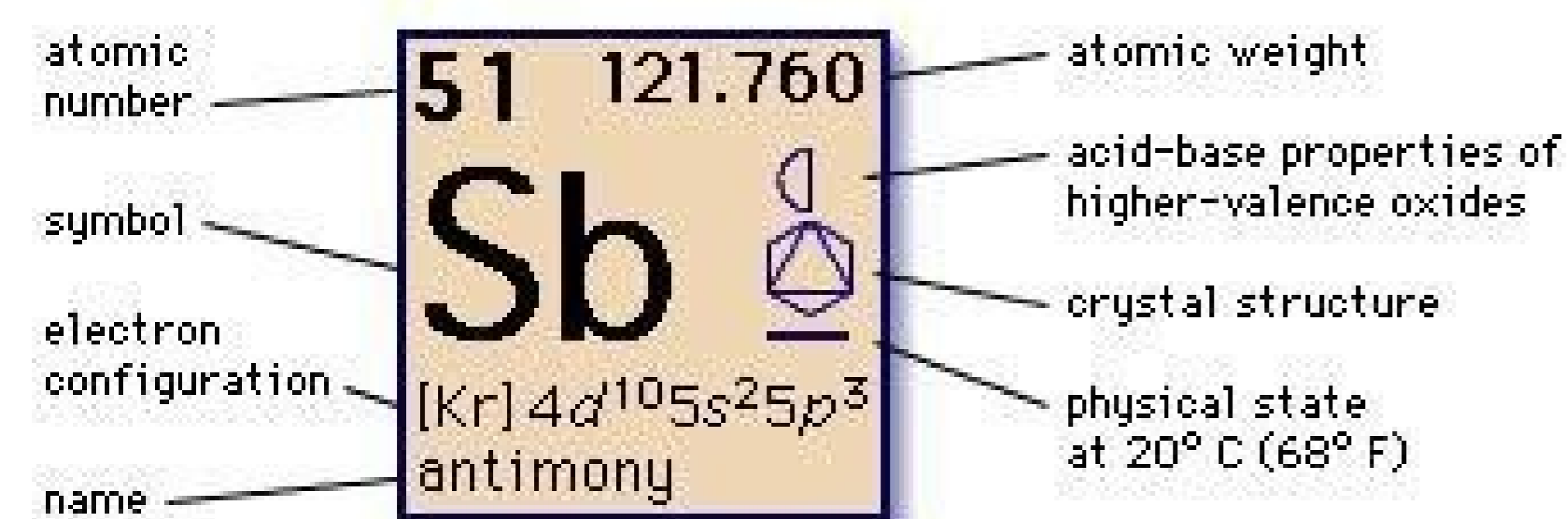
How you use your electron dot structures (Lewis structures) to determine electron geometry

Atoms Bonded to Central Atom	Lone Pair Electrons of Central Atom	Steric Number (add the two columns to the left together)	Electron Geometry	Example
1	0	1	Linear	H <sub>2</sub>
1	1	2	Linear	N <sub>2</sub>
1	2	3	Trigonal Planar	O <sub>2</sub>
1	3	4	Tetrahedral	F <sub>2</sub>
2	0	2	Linear	CO <sub>2</sub>
2	1	3	Trigonal Planar	NOBr
2	2	4	Tetrahedral	H <sub>2</sub> O
3	0	3	Trigonal Planar	H <sub>2</sub> CO
3	1	4	Tetrahedral	NH <sub>3</sub>
4	0	4	Tetrahedral	CH <sub>4</sub>
5	0	5	Trigonal Bipyramidal	PF <sub>5</sub>
4	1	5	Trigonal Bipyramidal	SF <sub>4</sub>
3	2	5	Trigonal Bipyramidal	BrF <sub>3</sub>
2	3	5	Trigonal Bipyramidal	XeH <sub>2</sub>
1	4	5	Trigonal Bipyramidal	XeF <sub>4</sub>
6	0	6	Octahedral	SH <sub>6</sub>
5	1	6	Octahedral	BrF <sub>5</sub>
4	2	6	Octahedral	XeH <sub>4</sub>
3	3	6	Octahedral	XeF <sub>3</sub> <sup>+</sup>
2	4	6	Octahedral	XeI <sub>2</sub> <sup>2+</sup>
1	5	6	Octahedral	XeI <sub>3</sub> <sup>+</sup>

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## Properties of Protons, Neutrons, and Electrons

	Electron	Proton	Neutron
<b>Symbol</b>	 e <sup>-</sup>	 p	 n
<b>Charge</b>	1 <sup>-</sup>	1 <sup>+</sup>	0
<b>Location</b>	electron cloud around the nucleus	nucleus	nucleus
<b>Relative mass</b>	1/1,840	1	1



atomic number: 51

symbol: Sb

electron configuration: [Kr] 4d<sup>10</sup> 5s<sup>2</sup> 5p<sup>3</sup>




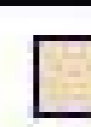
name: antimony

atomic weight: 121.760

acid-base properties of higher-valence oxides: weakly acidic

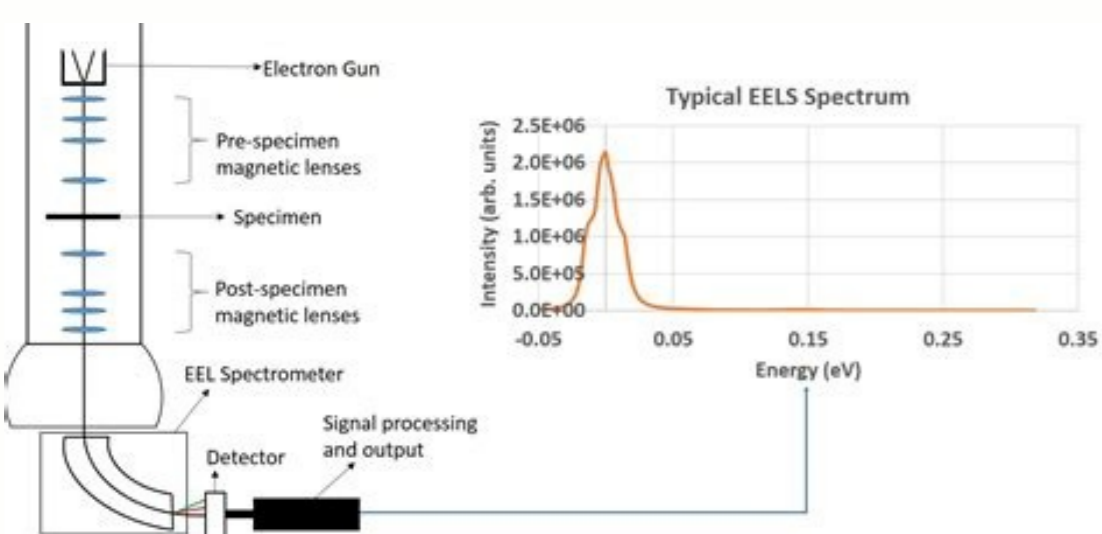
crystal structure: rhombohedral

physical state at 20° C (68° F): solid

	weakly acidic		solid
	rhombic		other metals

Complete the following table.

Isotope Name	Atomic Number	Mass Number	Symbol	Number of Protons	Number of Neutrons
1. carbon-14	6	14	$^{14}_6\text{C}$	6	8
2. oxygen-16	8	16	$^{16}_8\text{O}$	8	8
3. polonium-112	84	212	$^{212}_{84}\text{Po}$	84	128
4. uranium-238	92	238	$^{238}_{92}\text{U}$	92	146
5. hydrogen-2	1	2	$^2_1\text{H}$	1	1
6. helium-4	2	4	$^4_2\text{He}$	2	2
7. thorium-232	90	232	$^{232}_{90}\text{Th}$	90	142
8. carbon-12	6	12	$^{12}_6\text{C}$	6	6
9. lawrencium-257	103	257	$^{257}_{103}\text{Lr}$	103	154
10. hydrogen-1	1	1	$^1_1\text{H}$	1	0



Electron arrangements in atoms. Electron arrangement example. Electron arrangement list.

These chemistry homework pages are perfect for giving students practice writing those electron arrangements with all the little arrows! Students fill in the electron orbitals for an atoms page and then they do the same on an ion page, purposely designed so they can compare the two! This is great for all levels of learners. This page is part of my giant Chemistry Homework for a Year Bundle. Click here to read about that whole year bundle if you want to buy a whole year's worth of homework pages at a discount as compared to buying them separately. This page is also part of an Electron Arrangement Homework Unit. Click here to read about this unit set. This is a non-editable PDF file. The PDF file contains the student page, the answer key, and my terms of use page. Check out my Chemistry Doodle Notes for some engaging resources that thoroughly explain Chemistry concepts in a versatile way! Contact Us if you have any questions or concerns, please reach out to us on the question and answer section of my store and we will get back to you quickly! Terms of Use: Purchasing my teaching resources allows you to: \* make copies for your own classes only. \* place this file on your own password-protected class page or server (Blackboard, Google Drive, etc) AS LONG AS no other teacher has access to that class webpage. This resource is for you, the purchaser, alone. You are not allowed to distribute this digital resource to other teachers or post this resource on any webpage or server that is available for public view. If you and a team of teachers would like to use this resource together, please purchase additional licenses on the resource purchase page. Failure to comply with these terms of use is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Files are partially or fully non-editable to protect the images that are copyrighted and purchased through licenses. Thanks for understanding! © Bethany Lau All Rights Reserved.

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