

# Research an Element Project

*Be sure to list your sources at the end of this document.*

<b>Basic Facts</b>	Element Name & Atomic Symbol	
	Atomic Number	
	Number of protons	
	Atomic Mass (include units)	
	Most Common Isotope (include units)	
	Number of Neutrons in Most Common Isotope Atoms	
	Period	
	Group	
	<a href="#">Element Family name</a> (if applicable)	
	How many electron shells/orbitals/energy levels does your element use in the ground state?	
	Insert an image or drawing of your Element's Bohr Diagram	

<b>Concept Check</b>	How do you find the mass number of an atom?	
	Define Isotope in terms of subatomic particles.	
	Explain in terms of electron location and energy how the Bright Line Emission Spectrum for an element is produced.	
<b>History of this Element</b>	When was it discovered?	
	How was it discovered? (Or who discovered it?)	
	Where is the element's name from? Why was it named that? Does it have any other common names?	
	Where does your element's atomic symbol come from if it doesn't match its name?	
	Where is it found in nature?	
<b>Physical Characteristics (make sure to include units when necessary)</b>	Color(s)	
	Metal, non-metal, or metalloid?	
<b>Concept Check</b>	Explain how you can use the location of an element on the periodic table to identify it is a metal, non-metal, or metalloid.	
<b>Chemical Properties</b>	Three real world uses for this element	1.

		2.
		3.
	Two elements that will have similar chemical properties to your element	
<b>Concept Check</b>	Explain how you identified two elements that are the most similar to your element? Answer both in terms of the periodic table and electron configuration.	
<b>Nuclear Properties</b>	Is this element naturally radioactive or stable?	
<b>Fun Fact!</b>	What is one additional thing that you learned about your element in your research?	
<b>Sources</b>	List at least three sources that you used for your research.	1.
		2.
		3.
	Link to a video about your element	