



## The Amazing Atom

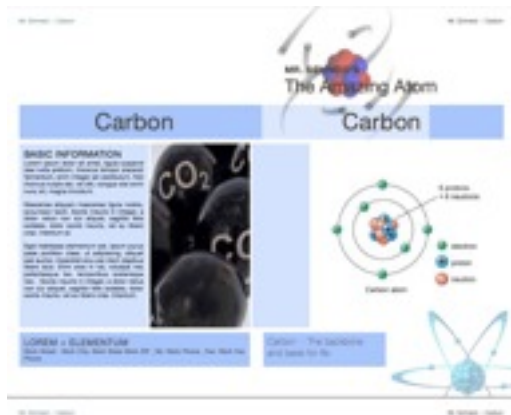
You are an author trying to increase the popularity of your children's book series. To do this your publisher has indicated that there are entirely too few science books written specifically for children on the topic of the periodic table. Your publisher wants you and your writer friends to write a series of books on the elements that will include all of the basic information about the elements while making the elements appeal to a young audience.

Write a children's book appropriate for a third or fourth grade child on the topic of the element you are assigned. The format of your book should include:

- *Cover*: the book's cover should have the name of your atom, your name and class.
- *Table of Contents*: one or two pages long and listing the interesting stuff you've put in your book.
- *Basic Information*: atomic number, atomic mass, symbol, a simplified drawing of the atomic nucleus (color code the particles). Your description of the element should include a short history of the element, what it looks like in its pure form, its physical state at room temperature (solid, liquid or gas), how common the element is in nature, where it is found, how you make pure samples of the element, common uses for the element. (6 or more pages)
- *Compounds the Atom Can Make*: include two compounds giving their names, formula and what they are used for. (1 page each compound)
- *Glossary*: your glossary should include at least ten (10) words included in your book with appropriate definitions and pronunciation key. Color code the words of the glossary where they appear in the book. This is where descriptions of words like proton, nucleus, etc. will take place. Don't waste space on the book pages with wordy explanations of terms you can fit here. (2-4 pages)
- *Sources*: websites, books, etc. used to prepare this project.

Be sure that your project is:

- ✓ **Chemically accurate:** Now is not the time to make stuff up. While creativity is appreciated, don't lose points supplying incorrect information in an attempt at levity.
- ✓ **Neatly done:** Text should be large enough for the appropriate age.
- ✓ **Correctly spelled:** one point will be deducted per misspelled word. If you are not sure about the spelling, look it up, or use spell check.
- ✓ **Done to specifications:** Use a template provided with pages, or at least that same format. Should have 2 "book pages" per 8.5 x 11 sheet.
- ✓ **Colorful:** but not distractingly so.
- ✓ **On time:** there will be a full letter grade deduction per day late.



Got it?	Point Value	Topic in your Book
	2	The name of your atom on the cover of your book.
	1	Your name on the cover of your book.
	1	The name of your class and period on the cover of your book.
	5	Table of contents.
	2	Atomic number of your element somewhere in the book.
	2	Atomic mass of your element somewhere in the book.
	2	The symbol for your element somewhere in the book.
	5	A color coded diagram of your element's nucleus showing the particles in the nucleus.
	2	The number of protons in the nucleus of your element.
	2	The number of neutrons in the nucleus of your element.
	5	The electron cloud surrounding the nucleus of your element.
	5	A short history of your element. Who found it, when was it discovered, etc.
	2	The appearance of your element in its pure form at room temperature. Is it shiny? yellow? dull? etc.
	2	The physical state of your element at room temperature. Is it a solid, liquid or gas?
	2	How common is your element in nature?
	2	How do you make a pure sample of your element?
	2	What are the common uses for your element?
	2	What are some health effects of your element?
	2	What are some environmental effects of your element?
	9	What are the name, formula and uses for one compound containing your element?
	9	What is the name, formula and uses for another compound containing your element?
	20	Glossary of a minimum of ten words in your book.
	2	Bibliography of sources used.
	5	Colorful.
	5	Made to size.