

The “HOW TO Guide” to Writing Chemical Names and Formulas

Design a mini-booklet that will explain through words and illustrations how chemicals are named and formulated.

Page 1:

This will act as your title page and Table of Contents. Give a title to your booklet and include your full name and science block letter. Give a Table of Contents of what topics can be found on the pages. This is YOUR property, so use a copyright protection symbol. Add colour and graphics that are relevant to the subject matter of the book.



Page 2:

Explain the rules for naming a binary ionic compound. Give two examples of a chemical word equation between a metallic element and a non-metallic element and what the name of the product will be. e.g. for word and formula equations: sodium + chlorine \rightarrow sodium chloride

Page 3:

Explain how to arrive at a chemical formula of an Ionic Compound. Give two examples, in one example the charges can be the same, in one example the charges must be unequal. Your explanation should mention the need to find the LCM between the two opposite charges.

Page 4:

Explain how to write the name of an ionic compound containing a multivalent metal. Give an example. Also explain how to get to the formula of a compound containing a multivalent metal. Give an example.

Page 5:

Give an example of how to name an ionic compound containing a polyatomic ion. Give an example of a chemical formula that uses a polyatomic ion that **does not** need brackets AND a chemical formula that **does** need brackets. Explain when and why brackets are used.

Page 6:

Explain how to name a covalent compound. Why are prefixes used? Give an example. Explain how to write the formula of a covalent compound from a given name. Give an example.

Due: Day of the Chemistry Unit Test