

Formulas & Nomenclature Test Study Guide

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The test will consist of multiple choice, matching, true false, and short answer questions.

You will be allowed to use a Periodic Table and a Polyatomic Ion List as your ONLY references.

The Nomenclature Flow Chart IS NOT ALLOWED.

You will be allowed ONE class period only to complete the test.

Topics, Skills, & Vocabulary to know:

Know when to use parentheses when applying a subscript

Know when to use Roman Numerals

Know how to recognize a polyatomic ion name

Know the difference between a binary and a ternary compound

Know the difference between a salt and a molecular substance

Know how to recognize an acid

Know the difference between a binary and ternary acid

Ternary acid with oxygen = oxyacid

Mercury dimerizes in the +1 oxidation state so: **mercury (I) = Hg_2^{+2}** and **mercury (II) = Hg^{+2}**

Be able to distinguish between metal elements and nonmetal elements

Recognize what the endings –ite and –ate represent

Be able to identify which elements are multivalent and be able to name them properly

Know when to use a hydro- prefix on an acid and when not to

Know when to use the –ide ending on a name

Be able to look at a formula and know if it is ionic or molecular

Be able to correctly identify oxidation states

Be able to recognize incorrectly written formulas

Lab: know what combination of solutions indicates the presence of Ag^+ , Pb^{+2} , and Hg^{+2} ions (qualitative analysis)

Know that correctly written formulas are neutral

Be able to look at a formula and identify the oxidation states of its elements

Know the numeric prefixes and when to use them; 1=mono, 2=di, 3=tri, 4=tetra, 5=penta,

6=hexa, 7=hepta, 8=octa, 9=nona, 10=deca

Be able to match correctly written names and formulas with each other