

Naming Molecular Compounds

Why?

How are the chemical formula and name of a molecular compound related?

When you began chemistry class this year, you probably already knew that the chemical formula for carbon dioxide was CO_2 . Today you will find out why CO_2 is named that way. Naming chemical compounds correctly is of paramount importance. The slight difference between the names carbon monoxide (CO , a poisonous, deadly gas) and carbon dioxide (CO_2 , a greenhouse gas that we exhale when we breathe out) can be the difference between life and death! In this activity you will learn the naming system for molecular compounds.

Model 1 – Molecular Compounds

Molecular Formula	Number of Atoms of First	Number of Atoms of Second	Name of Compound
ClF	1	1	Chlorine monofluoride
ClF_5	1	5	Chlorine pentafluoride
CO	1	1	Carbon monoxide
CO_2	1	5	Carbon dioxide
Cl_2O	2	1	Dichlorine monoxide
PCl_5	1	5	Phosphorus pentachloride
N_2O_5	2	5	Dinitrogen pentoxide

- Fill in the table to indicate the number of atoms of each type in the molecular formula.
- Examine the molecular formulas given in Model 1 for various molecular compounds.
 - How many different *elements* are present in each compound shown?
Two
 - Do the compounds combine metals with metals, metals with nonmetals, or nonmetals with nonmetals?
Non-metals with non-metals
 - Based on your answer to b, what type of bonding must be involved in molecular compounds?
Covalent bonds
- Find all of the compounds in Model 1 that have chlorine and fluorine in them. Explain why the name "chlorine fluoride" is not sufficient to identify a specific compound.
The number of fluorine atoms is different in the two compounds, but name does not reflect the difference
- Assuming that the name of the compound gives a clue to its molecular formula, predict how many atoms each of these prefixes indicates, and provide two examples.

Answers To Naming Molecular Compounds Pogil

**Bull, Prince Hycy, Patterson, Gerrelyn
Chunn**



Answers To Naming Molecular Compounds Pogil:

Redefining Teacher Education and Teacher Preparation Programs in the Post-COVID-19 Era Bull, Prince Hycy, Patterson, Gerrelyn Chunn, 2021-12-17 Due to the COVID 19 pandemic teacher preparation programs modified their practices to fit the delivery modes of school districts while developing new ways to prepare candidates Governmental agencies established new guidelines to fit the drastic shift in education caused by the pandemic and P 12 school systems made accommodations to support teacher education candidates The pandemic disrupted all established systems and norms however many practices and strategies emerged in educator preparation programs that will have a lasting positive impact on P 20 education and teacher education practices Such practices include the reevaluation of schooling practices with shifts in engagement strategies instructional approaches technology utilization and supporting students and their families Redefining Teacher Education and Teacher Preparation Programs in the Post COVID 19 Era provides relevant innovative practices implemented across teacher education programs and P 20 settings including delivery models training procedures theoretical frameworks district policies and guidelines state national and international standards digital design and delivery of content and the latest empirical research findings on the state of teacher education preparation The book showcases best practices used to shape and redefine teacher education through the COVID 19 pandemic Covering topics such as online teaching practices simulated teaching experiences and emotional learning this text is essential for preservice professionals paraprofessionals administrators P 12 faculty education preparation program designers principals superintendents researchers students and academicians

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