



Name: _____
Date: _____

COUNTING ATOMS

WORKSHEET

- Chemical formulas can have three components.
 - The _____ which are represented by a single uppercase letter, or represented by an uppercase letter followed by a lowercase letter. This tells you the types of elements in the compound.
 - The _____ which are numbers that are found on the lower _____ - hand side of each element symbol. This tells you the number of _____ of this element in the molecule. If an element symbol has no subscript next to it, then this indicates that there is only _____ atom of this element in the molecule.
 - The _____ which surround some groups of atoms indicate that the numbers of all of the atoms inside the bracket need to be _____ by the _____ on the outside of the bracket found on the lower _____ - hand side of that bracket.
- Record the number of each atom in each molecule, then record the total number of atoms in the molecule:

1) NaOH	
Element	# of Atoms
Total	

4) Li ₂ SO ₄	
Element	# of Atoms
Total	

7) H ₂ COCH ₂	
Element	# of Atoms
Total	

10) NH ₄ C ₂ H ₃ O ₂	
Element	# of Atoms
Total	

13) Ca ₃ (PO ₄) ₂	
Element	# of Atoms
Total	

2) HNO ₃	
Element	# of Atoms
Total	

5) NH ₄ Cl	
Element	# of Atoms
Total	

8) Mg(OH) ₂	
Element	# of Atoms
Total	

11) NaC ₂ H ₃ O ₂	
Element	# of Atoms
Total	

14) Fe ₂ (CO ₃) ₃	
Element	# of Atoms
Total	

3) U ₂ O	
Element	# of Atoms
Total	

6) CaClO ₃	
Element	# of Atoms
Total	

9) Al(OH) ₃	
Element	# of Atoms
Total	

12) (NH ₄) ₃ PO ₄	
Element	# of Atoms
Total	

15) Al ₂ (SO ₄) ₃	
Element	# of Atoms
Total	

Counting Atoms Grade 9

Thirumalaisamy P.
Velavancorresponding



Counting Atoms Grade 9:

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session of approximately 60 post deadline papers We wish to thank all of the participants for their outstanding contributions and for preparation of their papers now available to a wider audience Our thanks go to the members of the International Steering Committee for their suggestions and recommendations We are especially pleased to have held this conference under the auspices of the International Union of Pure and Applied Physics VICOLS would not have been possible without the financial support of the Natural Sciences and Engineering Research Council of Canada and the Office of Naval Research and Air Force Office of Scientific Research of the United States of America

Scientific American ,1878 **Energy Research Abstracts** ,1984 *The New International Year Book* ,1921 *ENC Focus* ,2002 Three Cognitive Skills in Chemistry and Their Application to Stoichiometry Ardas Ozsogomonyan,1977 New International Yearbook ,1921 The Summary ,1906 **Readers' Guide to Periodical Literature** ,1927 **Nature** Sir Norman Lockyer,1924 **The Internal Revenue Record and Customs Journal** ,1892 **The Library Index to Periodicals and Current Events** ,1905

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