
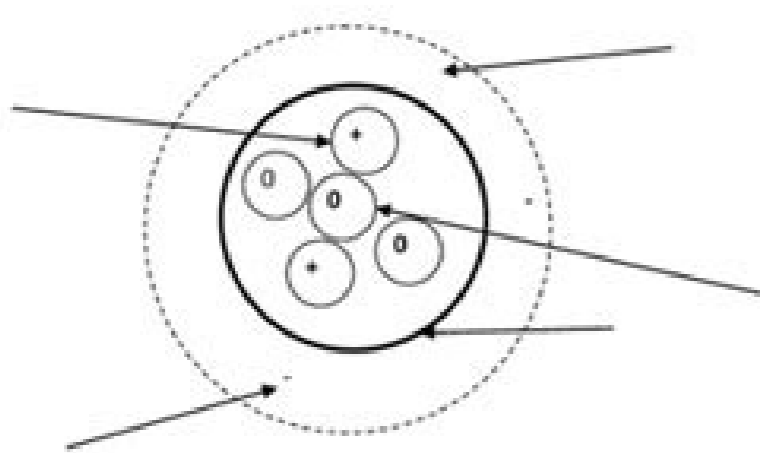


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**Atoms and Elements Worksheet**

1. Label all parts of this atom, calculate overall charge and mass. Show all work.



Protons  
+ Neutrons  
Mass #

Protons  
+ Electrons  
Overall Charge

Using your flip card and your periodic table, fill in the tables below.

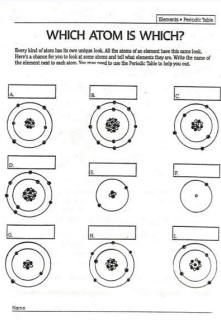
Element Name	Element symbol	Atomic #	Mass #	# of protons	# of electrons	# of neutrons
iron			56		26	
	Si		28		14	
calcium			41		20	
	Br		80		35	
				16		17

**Drawing Organic Compounds**

**Rules**

1. Each Carbon atom must have 4 bonds
2. Each Oxygen atom must have 2 bonds
3. Each Hydrogen atom must have 1 bond
4. Each Chlorine atom must have 1 bond
5. Each Nitrogen atom must have 3 bonds

	Molecular Formula	Displayed Formula	Structural Formula
1	C <sub>2</sub> H <sub>6</sub>		
2	C <sub>2</sub> H <sub>4</sub>		
3	C <sub>2</sub> H <sub>2</sub> O		
4	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>		
5	C <sub>2</sub> H <sub>4</sub> O		
6	C <sub>2</sub> H <sub>2</sub>		
7	C <sub>2</sub> H <sub>4</sub> N		
8	C <sub>2</sub> H <sub>4</sub> N <sub>2</sub>		
9	C <sub>2</sub> H <sub>2</sub> O <sub>2</sub>		
10	C <sub>2</sub> H <sub>2</sub> O		

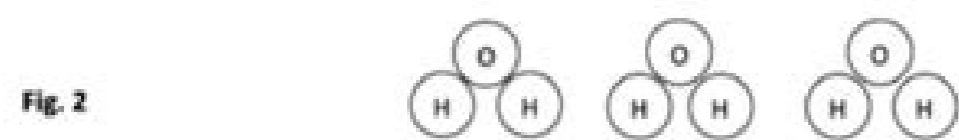


**Counting Atoms Worksheet**

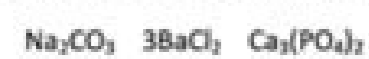
Chemical formulas consist of element symbols and numbers that indicate how many atoms of each element are present. For example in the molecule C<sub>3</sub>H<sub>8</sub>, there are 3 Carbon atoms and 8 Hydrogen atoms. In CO<sub>2</sub>, there is 1 Carbon atom (we don't write the 1 in the chemical formula) and 2 Oxygen atoms. For an example of when parenthesis are involved, please see Fig. 1 for the pictorial representation of H(CO<sub>3</sub>)<sub>2</sub>. As you can see there is 1 Hydrogen atom, 2 Carbon atoms, and 6 Oxygen atoms.



When there is a number in front of the compound, that indicates how many molecules of a compound there is. For example, 3H<sub>2</sub>O means there are 3 molecules of H<sub>2</sub>O. See Fig. 2 for the pictorial representation of 3H<sub>2</sub>O. As you can see, there are 3 Oxygen atoms and 6 hydrogen atoms.




Please complete the following charts.



Type of Atom	# of Atoms	Type of Atom	# of Atoms	Type of Atom	# of Atoms
Total		Total		Total	



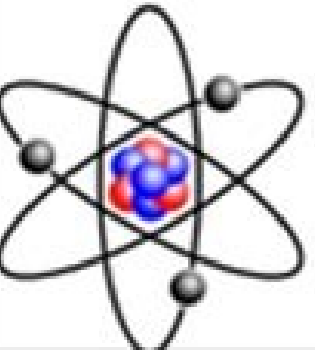
Type of Atom	# of Atoms	Type of Atom	# of Atoms	Type of Atom	# of Atoms
Total		Total		Total	

Write below the three particles that make up an atom 

\_\_\_\_\_ Draw here an diagram of an atom of your choosing. Label all the particles

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Look at the diagram of the atom on the left. For each different colour particle, complete the information in the same coloured table.



NAME OF PARTICLE		NAME OF PARTICLE		NAME OF PARTICLE	
MASS		MASS		MASS	
CHARGE		CHARGE		CHARGE	

---

Below each piece of the periodic table write: The name of the element, the number of protons, the number of electrons, and the number of neutrons.

8 <b>O</b> 16	1 <b>H</b> 1	6 <b>C</b> 12	7 <b>N</b> 14	16 <b>S</b> 32

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What will happen to the following particles if they are placed next to each other? Will they attract? Repel? Or nothing?

2 PROTONS	2 ELECTRONS	1 ELECTRON, 1 PROTON	1 PROTON, 1 NEUTRON	1 NEUTRON, 1 ELECTRON

Atoms and molecules worksheet 5th grade pdf. 5th grade atoms and molecules worksheet. Atoms 5th grade worksheet.

Write the postulate given by the Indian philosopher Maharishi Kanad. Ans : Indian philosopher Maharishi Kanad postulated if we divide matter we will get smaller and smaller particles. One gram atom of any element contains  $6.022 \times 10^{23}$  atoms of the element. Students will learn what protons, electrons, and neutrons are. Write the chemical formula of: (a) Sodium oxide (b) calcium chloride (c) aluminium oxide (d) magnesium hydroxide (e) sodium carbonate 12. One gram atomic mass =  $6.022 \times 10^{23}$  atoms = 1 mole Question. See how the atomic model is made up of electrons, protons and neutrons. 5. Name the gas which gives the lightest positively charged particle. Ans : Hydrogen. They will discover that each of these parts always have the same function. How was the relative atomic mass determined? Ans : Relative atomic masses were determined by using the laws of chemical combinations and the compound formed. Standard 9 students should practice questions and answers given here for Chemistry in Grade 9 which will help them to improve your knowledge of all important chapters and its topics. It was found after reaction that 6.83 g of lead chloride was precipitated. Calculate the amount of sodium nitrate formed. Ans : 50 g of 10% lead nitrate = 5 g lead nitrate + 45 g water 50 g of 10% sodium chloride = 5 g sodium chloride

45 g water Total content before reaction = 5 + 5 + 90 = 100 Total content after reaction = 90 g Amount of precipitate = 6.83 g According to law of conservation, Total mass of reaction mixture = 100 g Amount of sodium nitrate = 100 - 90 - 6.83 = 3.17 g Students must free download and practice these worksheets to gain more marks in exams. CBSE Class 9 Chemistry Worksheet - Atoms And Molecules Elements can be combined to make molecules. Prepared by teachers of the best CBSE schools in India. Lavoisier gave the concept of formation of compounds. Give two examples each of: (a) Mono atomic molecule (b) tri atomic molecule (c) Di atomic molecule (d) poly atomic molecule 11. The relative atomic mass of oxygen atom is 16. Our resource makes the periodic table easier to understand. Who was the first scientist to give the concept of formation of compounds? Ans : Antoine L. 6. ATOMS HOMEWORK ASSIGNMENT There are a couple sections on the homework assignment. Write the postulates of Dalton's atomic theory. 3. 17. (Students can work with partners or small groups if you prefer.) Students will figure out the correct number of protons, neutrons, and electrons before putting their atom together. Each concept features hands-on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts. About the full resource, Atoms, Molecules & Elements Gr. 5-8-Young scientists will be thrilled to explore the invisible world of atoms, molecules and elements. How is it related to mole and Avogadro number? Ans : The atomic mass of an element expressed in grams is called gram atomic mass. Get comfortable with the periodic table by recognizing each element as part of a group. THIS IS AN INSTANT DOWNLOAD\*\*This FREE bonus resource includes extension activity worksheets from our Atoms, Molecules & Elements Gr. 5-8 title. Enjoy 6 BONUS worksheets from Atoms, Molecules & Elements Gr. 5-8. Or, it is defined as number of electrons lost or gained by an atom to acquire noble gas configuration. They will need a number of supplies to build it, including cotton balls, paint, and heavy stock paper. Name the scientist who gave two important laws of chemical combination. Explain its meaning. Ans : The relative atomic mass of an atom is the average masses of the atom, as compared to the mass of one carbon-12 atom. This test paper with questions and answers for Grade 9 Chemistry will be very useful for exams and help you to score good marks Class 9 Chemistry Worksheet for Atoms And Molecules CBSE Class 9 Chemistry Worksheet - Atoms And Molecules - Practice worksheets for CBSE students. State the law of constant proportion. How many molecules are present in 10 g of H<sub>2</sub>O? What is law of conservation of mass? There are endless combinations of atoms that make up all of matter. They will learn what components all atoms have and be able to define them and their functions. What is meant by the term chemical formula? Ans : The chemical formula of a compound is a symbolic representation of its composition and actual number of atoms in one molecule of a pure substance may be an atom or a compound Question. Sucrose can be written in a shorthand notation like this: C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>. Electrons will always revolve around the nucleus. They will be able to reference the table to learn how many protons are in any given element. Define valency. Ans : The combining power of an element to attain the noble gas configuration is called valency. There are four total pages of content in this lesson plan. These worksheets can be used on their own, or paired with the individual resources as extension activities at the completion of the unit. CREATE A MODEL ACTIVITY WORKSHEET For the activity, students will create a model of an atom. Then they will learn how combining different elements creates molecules. Calculate the mass of 1 atom of nitrogen? Find the formula unit mass of: (a) NaCl (b) FeO (c) NaHCO<sub>3</sub> (d) CuSO<sub>4</sub> Exam Questions NCERT Class 9 Science Chapter 3 Atoms And Molecules Question. ATOMS AND MOLECULES 1. It is equal to one mole of atoms. At the end, they will define atoms in their own words and explain how they make up everything in the world. A sucrose molecule, what you know as table sugar, is made up of 12 atoms of carbon, 22 atoms of hydrogen, and 11 atoms of oxygen. 16. 10. Then they will fill in the blank for 11 questions. Finally, explore the three important kinds of elements: metals, nonmetals and inert gases. Then, move on to compounds. What is the number of electrons in Mg atom and Mg<sup>2+</sup> ion? Ans : Mg = 12e<sup>-</sup> Mg<sup>2+</sup> = 10e<sup>-</sup> Question. What is the difference between an atom and molecule? Some are simple like water, while others are much more complicated such as hemoglobin. Find the molecular mass of: (a) H<sub>2</sub>S (b) HCl (c) NH<sub>3</sub> (d) Cl<sub>2</sub> (e) CH<sub>3</sub>COOH (f) CH<sub>3</sub>CHO 14. If 100g of water is decomposed, how many grams of oxygen and hydrogen are obtained? He said that a time will come when we come across smallest particles beyond which further division will not be possible. 15. Give example. The first couple pages introduce students to the atom and what makes it up. Find out what a molecule is, and how they differ from elements. Read and download free pdf of CBSE Class 9 Chemistry Atoms And Molecules Worksheet Set A. Examine how patterns in the period table dictate how those elements react with others. Lesson Objectives and Overview: Atoms teaches students about the building blocks of life. How many moles are there in 200 g of Na? Begin by answering, what are atoms? And the best part is, it's FREE About these BONUS Worksheets: Combining Science, Technology, Engineering, Art, and Math, these worksheets are aligned to the STEAM initiatives and Next Generation Science Standards. 2. Name the instrument which produces image of the surface of element that shows atoms. Ans : Scanning tunnelling microscope. In addition, they will learn that the nucleus always contains protons and neutrons. 4. Define the term gram atom. Besides, the reaction mixture contained 90 g water and sodium nitrate. First, students will write each of the four parts of an atom. 8. Following the directions, students will build the model and connect it to string so that it can hang. You will assign each student a specific element for which they will create their atom. 7. All of our content meets your State Standards and are written to Bloom's Taxonomy and STEAM initiatives. 50 g of 10% lead nitrate is mixed with 50 g of 10% sodium chloride in a closed vessel. This means that 2 hydrogen atoms are bonded to one oxygen atom. Students will then learn about elements and look at the Periodic Table of Elements. Students and teachers of Class 9 Chemistry can get free printable Worksheets for Class 9 Chemistry in PDF format prepared as per the latest syllabus and examination pattern in your schools. Question. Oxygen and hydrogen, for instance, can create water with the right combination. Find the mass of (a) .2 moles of oxygen gas (b) 1.5 moles of water (c) 3 moles of neon (a) .5 moles of sodium (e) 2 moles of nitrogen element 13. Describe with an activity. Find the elements that make up different compounds. Students will discover how billions of these tiny pieces of matter make up their bodies, the oceans, the air, and every other thing. Students should also download free pdf of Class 9 Chemistry Worksheets prepared by school teachers as per the latest NCERT, CBSE, KVS books and syllabus issued this academic year and solve important problems provided here with solutions on daily basis to get more score in school exams and tests Atoms And Molecules Class 9 Chemistry Worksheet Pdf Class 9 Chemistry students should refer to the following printable worksheet in Pdf for Atoms And Molecules in standard 9. Write symbols of: (a) copper (b) mercury (c) iron (d) silver (e) gold (f) argon (g) zinc (h) cobalt (i) lead (j) potassium (k) silicon 9. Elements and Molecules Elements can be combined to make molecules. What is the difference between 2N and N<sub>2</sub>? What is meant by valency of an element? Why atoms form ions? Ans : Atoms get stability by acquiring the stable electronic configuration of the nearest noble gas for which either they lose electrons or gain electrons and thus acquire noble gas configuration. Water for example is H<sub>2</sub>O.

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