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the overall shape of the molecule is a pyramid with nitrogen at the vertex and a triangular base formed by the three hydrogen atoms as you will learn when you study molecular shapes and molecular geometry this type of arrangement is known as trigonal pyramidal

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when a molecule or polyatomic ion has only one central atom the molecular structure completely describes the shape of the molecule larger molecules do not have a single central atom but are connected by a chain of interior atoms that each possess a local geometry

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why is the CO_2 molecule linear whereas H_2O is bent how can we tell how does hemoglobin carry oxygen through our bloodstream there is no topic more fundamental to chemistry than the nature of the chemical bond and the introduction you find here will provide you with an overview of the fundamentals and a basis for further study

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lewis structures and structural formulas are common ways of showing the covalent bonding in organic molecules formal charge describes the changes in the number of valence electrons as an atom becomes bonded into a molecule

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now that we have developed an understanding of the relationship between molecular structure and chemical bonding we analyze physical properties of the molecules and compounds of these molecules to relate to this bonding and structure

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the division of a sample of a substance into progressively smaller parts produces no change in either its composition or its chemical properties until parts consisting of single molecules are reached

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the structure that includes only the placement of the atoms in the molecule is called the molecular structure the electron pair geometries will be the same as the molecular structures when there are no lone electron pairs around the central atom but they will be different when there are lone pairs present on the central atom

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molecular structure bonding molecular shape the shape of molecules the three dimensional shape or configuration of a molecule is an important characteristic this shape is dependent on the preferred spatial orientation of covalent bonds to atoms having two or more bonding partners

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molecular structure is the arrangement of atoms within a molecule and it s a fundamental concept in chemistry understanding molecular structure helps us know how atoms bond together to form different substances each molecule has a unique structure that determines its properties and behavior in chemical reactions

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molecular geometry also known as the molecular structure is the three dimensional structure or arrangement of atoms in a molecule understanding the molecular structure of a compound can help determine the polarity reactivity phase of matter color magnetism as well as the biological activity

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molecular geometry or molecular structure is the three dimensional arrangement of atoms within a molecule it is important to be able to predict and understand the molecular structure of a molecule because many of the properties of a substance are determined by its geometry

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the primary structure is the covalent chemical structure that is a specification of the identity of all the atoms and the bonds that connect them the major molecules with which we work proteins nucleic acids and carbohydrates usually consist of linear arrays of units each of which has a similar overall structure they differ only in

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molecular structure of polymer materials is tightly correlated to their rheology and mechanical properties yet molecular time scales are very different from observable mechanical phenomena making it hard to link one with the other

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