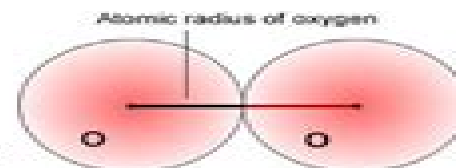


Vocabulary: Periodic Trends



Vocabulary

- **Atomic radius** – the distance from the nucleus to the outermost edge of the electron cloud.
 - The atomic radius can be determined by measuring the distance between two adjoining nuclei in a molecule comprised of two identical atoms, and then dividing by two.
 - For nonmetallic atoms that do not form diatomic molecules, the radius is determined by measuring the radius of atoms in covalent compounds.
 - For metallic atoms, the radius is determined by measuring the radius of atoms in metallic crystals.
 - The *Periodic Trends Gizmo* uses calculated atomic radii established by Enrico Clementi and others in 1967.
- **Electron affinity** – the change in energy that occurs when an electron is added to a neutral atom in the gaseous state, measured in kJ/mol.
 - Electron affinity refers to the tendency of an atom to attract electrons.
 - An element with a strong attraction for electrons will have a high negative electron affinity, since energy is released when an electron is added. The greater the magnitude of the negative electron affinity value, the stronger the attraction for electrons.
- **Electron cloud** – the region occupied by fast-moving electrons that surrounds the nucleus of an atom.
 - The electron cloud can be considered a probability distribution representing the space where electrons are most likely to be found.
- **Energy level** – a discrete region of space within the electron cloud where electrons are most likely to be found.
 - The number of principal energy levels within an atom is equal to that atom's period number on the periodic table.
 - There are a maximum of 7 principal energy levels within an atom.
- **Group** – a vertical column in the periodic table, numbered 1 to 18.
 - Groups are also called families.
 - Elements in the same group have the same number of valence electrons and similar chemical properties.



Periodic Table Vocab Answers Holt Mcdougal

Siddappa N.Byrareddy



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Holt Science and Technology 2002 Holt, Rinehart and Winston Staff, 2002 **Holt Science and Technology 2002** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2002 *Children's Books in Print, 2007*, 2006 Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice Patterns In the Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives *Atoms, Molecules & Elements: The Periodic Table Gr. 5-8* George Graybill, 2015-10-01 This is the chapter slice The Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives **Atoms, Molecules & Elements: What Are Elements? Gr. 5-8** George Graybill, 2015-10-01 This is the chapter slice What Are Elements from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives **Science**

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