

Electronegativity Quiz PDF

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Which of the following bonds is most likely to be nonpolar covalent?

- H-Cl
- H-F
- H-H
- H-O

What is the significance of electronegativity in determining the polarity of a molecule?

What is the general trend of electronegativity across a period in the periodic table?

- Decreases
- Increases
- Remains constant
- Varies randomly

Which factors influence an element's electronegativity?

- Atomic number
- Electron affinity
- Ionization energy
- Atomic radius

In which of the following pairs is the first element more electronegative than the second?

- Oxygen and Sulfur
- Nitrogen and Phosphorus
- Chlorine and Bromine
- Carbon and Silicon

Which element would you expect to have a higher electronegativity, sulfur or selenium?

- Sulfur
- Selenium
- Both have the same
- Cannot be determined

What is the most electronegative element?

- Oxygen
- Chlorine
- Fluorine
- Nitrogen

Which elements are likely to form polar covalent bonds with hydrogen?

- Fluorine
- Oxygen
- Chlorine
- Argon

Explain why electronegativity increases across a period in the periodic table.

On which scale is electronegativity most commonly measured?

- Mohs scale
- Richter scale
- PAULLING scale

Kelvin scale

Describe how electronegativity differences can be used to predict the type of bond formed between two atoms.

Which element has the lowest electronegativity?

- Lithium
- Sodium
- Cesium
- Potassium

Electronegativity tends to decrease as you move down a group because:

- Atomic radius decreases
- Nuclear charge decreases
- Additional electron shells are added
- Electrons are closer to the nucleus

Discuss the relationship between electronegativity and ionization energy.

How does the concept of electronegativity relate to the reactivity of metals and nonmetals?

What type of bond is formed when the electronegativity difference between two atoms is greater than 1.7?

- Nonpolar covalent
- Polar covalent
- Ionic
- Metallic

Why is fluorine considered the most electronegative element, and how does this affect its chemical behavior?

Electronegativity is important for predicting which of the following?

- Bond type
- Molecular polarity
- Atomic mass
- Reaction outcomes

Which of the following elements are more electronegative than carbon?

- Nitrogen
- Oxygen
- Hydrogen
- Sulfur

Which of the following statements about electronegativity are true?

- It is a measure of an atom's ability to attract electrons in a bond.
- It decreases across a period.
- It is higher for nonmetals than metals.
- It is unrelated to atomic size.