General Chemistry I Unit 03: Bonding

Author: Joanna Smithback

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1. Unit 03: Bonding

- 4. Chapter: Unit 03: Bonding
- 1. Unit 03: Bonding Questions

4.1.1. According to Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

Author: Joanna Smithback

According to Valence Shell Electron Pair Repulsion Theory (VSEPR), what number of bonded atoms is normally expected to produce a tetrahedral geometry?

Please choose only one answer:

- three
- four
- five
- six

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Author: Joanna Smithback

According to Valence Shell Electron Pair Repulsion Theory (VSEPR), what number of bonded atoms is normally expected to produce a trigonal planar geometry?

Please choose only one answer:

- three
- four
- five
- six

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Author: Joanna Smithback

According to Valence Shell Electron Pair Repulsion Theory (VSEPR), what number of bonded atoms is normally expected to produce a trigonal pyramidal geometry?

Please choose only one answer:

- three
- four
- five
- six

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Author: Joanna Smithback

Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), what is the molecular geometry of BeCl[sub]2[/sub]?

Please choose only one answer:

- linear
- trigonal planar
- tetrahedral
- trigonal bipyramid

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Author: Joanna Smithback

Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), what is the molecular geometry of PI[sub]5[/sub]?

Please choose only one answer:

- linear
- trigonal planar
- tetrahedral
- trigonal bipyramid

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Author: Joanna Smithback

Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), what is the molecular geometry of CF[sub]4[/sub]?

Please choose only one answer:

- linear
- trigonal planar
- tetrahedral
- trigonal bipyramid

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Author: Joanna Smithback

Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), which of the following corresponds most closely to the geometry of the IBr[sub]2-[/sub] ion?

Please choose only one answer:

- linear
- "T-shaped"
- bent (bond angle 120°)
- bent (bond angle 109.5°)

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Author: Joanna Smithback

Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), which of the following corresponds most closely to the molecular geometry of SF[sub]2[/sub]?

Please choose only one answer:

- linear
- "T-shaped"
- bent (bond angle 120°)
- bent (bond angle 109.5°)

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Author: Joanna Smithback

Eighteen electrons are present in the Lewis structure of which of the following molecules?

Please choose only one answer:

- SO[sub]2[/sub]
- N[sub]2[/sub]O
- CO[sub]2[/sub]
- HCN

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4.1.10. How many lobes exist for a dyz orbital?

Author: Joanna Smithback

How many lobes exist for a dyz orbital?

Please choose only one answer:

- 1
- 2
- 3
- 4

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4.1.11. How many p orbitals are there?

Author: Joanna Smithback

How many p orbitals are there?

Please choose only one answer:

- 1
- 2
- 3
- 4

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4.1.12. How many valence electrons are expected for an element that is in g...

Author: Joanna Smithback

How many valence electrons are expected for an element that is in group 5A of the periodic table?

Please choose only one answer:

- three
- five
- eight
- ten

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4.1.13. In which of the following pairs of molecules do both members of the...

Author: Joanna Smithback

In which of the following pairs of molecules do both members of the pair have the same molecular geometry?

Please choose only one answer:

- SO[sub]2[/sub] and CO[sub]2[/sub]
- H[sub]2[/sub]S and HCN
- NH[sub]3[/sub] and SO[sub]3[/sub]
- H[sub]2[/sub]O and OF[sub]2[/sub]

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4.1.14. What is the approximate H-B-H angle in BH[sub]3[/sub]?

Author: Joanna Smithback

What is the approximate H-B-H angle in BH[sub]3[/sub]?

Please choose only one answer:

- 90°
- 109°
- 120
- 180°

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4.1.15. What is the approximate I-N-I angle in NI[sub]3[/sub]?

Author: Joanna Smithback

What is the approximate I-N-I angle in NI[sub]3[/sub]?

Please choose only one answer:

- 90°
- 109.5°
- 120°
- 180°

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4.1.16. What is the hybridization of the oxygen atom in water?

Author: Joanna Smithback

What is the hybridization of the oxygen atom in water?

Please choose only one answer:

- sp
- sp[sup]2[/sup]
- sp[sup]3[/sup]
- The oxygen atom does not hybridize in water.

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4.1.17. Which molecule contains a double bond?

Author: Joanna Smithback

Which molecule contains a double bond?

Please choose only one answer:

- SF[sub]2[/sub]
- CF[sub]4[/sub]
- COCI[sub]2[/sub]
- none of the above

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4.1.18. Which of the following best describes the variation of the electron...

Author: Joanna Smithback

Which of the following best describes the variation of the electronegativity of the elements with respect to their position on the periodic table?

Please choose only one answer:

- increases across a period; increases down a group
- increases across a period; decreases down a group
- decreases across a period; increases down a group
- decreases across a period; decreases down a group

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Author: Joanna Smithback

Which of the following combinations of two elements is most likely to produce highly ionic bonds?

Please choose only one answer:

- nitrogen and oxygen
- nitrogen and fluorine
- boron and nitrogen
- lithium and fluorine

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4.1.20. Which of the following combinations of two elements is most likely ...

Author: Joanna Smithback

Which of the following combinations of two elements is most likely to produce covalent bonds?

Please choose only one answer:

- nitrogen and oxygen
- sodium and fluorine
- sodium and nitrogen
- lithium and fluorine

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4.1.21. Which of the following elements is most likely to participate in th...

Author: Joanna Smithback

Which of the following elements is most likely to participate in the formation of multiple bonds?

Please choose only one answer:

- H
- Na
- CI
- S

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4.1.22. Which of the following elements is most likely to form compounds in...

Author: Joanna Smithback

Which of the following elements is most likely to form compounds involving an expanded valence shell of electrons?

Please choose only one answer:

- 0
- Na
- P
- N

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