Natural Sciences General Chemistry I MCQ

Author: Joanna Smithback

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Joanna Smithback, Ph.D. and Rachel Lerebours. General Chemistry I. The Saylor Foundation, http://www.saylor.org/courses/chem101/

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- Unit 03: Bonding
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- Unit 01: Matter and Measurements

- 4. Chapter: Unit 05: States of Matter
- 1. Unit 05: States of Matter Questions

4.1.1. A sample of a certain gas has a volume of 222 mL at 695 mm Hg and 0...

#### Author: Joanna Smithback

A sample of a certain gas has a volume of 222 mL at 695 mm Hg and 0°C. What would be the volume of this same sample of gas if it were measured at 333 mm Hg and 0°C?

Please choose only one answer:

- 894 mL
- 657 mL
- 463 mL
- 359 mL

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Author: Joanna Smithback

For a given sample of gas molecules, the average kinetic energy depends only on the value of the

Please choose only one answer:

- pressure
- temperature
- volume
- moles

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4.1.3.	The phase	change from	n solid to da	as is called	

Author: Joanna Smithback

The phase change from solid to gas is called \_\_\_\_\_\_.

Please choose only one answer:

- boiling
- efflorescence
- evaporation
- sublimation

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4.1.4. If the temperature and pressure are kept constant during the proces...

#### Author: Joanna Smithback

If the temperature and pressure are kept constant during the process, how many liters of TiCl[sub]4[/sub] gas will be produced when 20.0 L of chlorine react with titanium, according to the reaction: Ti(s) + 2 Cl[sub]2[/sub](g) TiCl[sub]4[/sub](g)?

Please choose only one answer:

- 5.00 L
- 10.0 L
- 20.0 L
- 40.0 L

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#### Author: Joanna Smithback

In a phase diagram, if a sample is at low pressure and high temperature, it is likely to be in what phase?

Please choose only one answer:

- Liquid
- Gas
- Solid
- Both A and C

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4.1.6. Ionic crystals have the following properties.

Author: Joanna Smithback

lonic crystals have the following properties.

Please choose only one answer:

- Long range order
- Amorphous
- Made up of neutral molecules
- None of the above

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4.1.7. Nitrogen gas has a pressure of 452 mm Hg. What is the pressure in a...

Author: Joanna Smithback

Nitrogen gas has a pressure of 452 mm Hg. What is the pressure in atmospheres?

Please choose only one answer:

- 4.52 atm
- 0.595 atm
- 0.452 atm
- 1.68 atm

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4.1.8. The atmospheric pressure on a nice day is 751 mm Hg. What is this p...

#### Author: Joanna Smithback

The atmospheric pressure on a nice day is 751 mm Hg. What is this pressure in atmospheres?

Please choose only one answer:

- 0.751 atm
- 7.51 atm
- 0.988 atm
- 1.01 atm

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4.1.9. The liquid to gas phase transition for the drying rainwater on a ro...

#### Author: Joanna Smithback

The liquid to gas phase transition for the drying rainwater on a road, following a rainstorm, is described to be what?

Please choose only one answer:

- Boiling
- Evaporation
- Sublimation
- None of the above

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#### Author: Joanna Smithback

The volume of a certain gas sample is 1150 mL at a temperature of 25°C. At what temperature would that same gas sample have a volume of 1.53 L at constant pressure and mass?

Please choose only one answer:

- -49.1°C
- 124°C
- 248°C
- 397°C

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#### Author: Joanna Smithback

The volume of a certain gas sample is 235 mL at a temperature of 25°C. At what temperature would that same gas sample have a volume of 310 mL at constant pressure and mass?

Please choose only one answer:

- -47.0°C
- 33.1°C
- 69.4°C
- 120°C

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#### Author: Joanna Smithback

What is the pressure in atmospheres of a gas mixture that consists of 0.200 moles of nitrogen and 0.300 moles of oxygen in a 1250 mL container at 0°C?

Please choose only one answer:

- 0.00897 atm
- 0.897 atm
- 1.79 atm
- 8.97 atm

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Interactive Question: http://www.quizover.com/question/what-is-the-pressure-in-atmospheres-of-a-joanna-smithback-saylor?pdf=1505 4.1.13. What is the pressure in atmospheres of a gas mixture that consists ...

#### Author: Joanna Smithback

What is the pressure in atmospheres of a gas mixture that consists of 8.80 grams of nitrogen and 8.80 grams of carbon dioxide in a 2.01 liter container at 27°C?

Please choose only one answer:

- 6.30 atm
- 3.85 atm
- 2.45 atm
- 0.971 atm

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#### Author: Joanna Smithback

You have O[sub]2[/sub] gas with a pressure of 0.32 atm. What is the gas pressure in mm Hg?

Please choose only one answer:

- 240 mm Hg
- 0.24 mm Hg
- 0.0041 mm Hg
- 24 mm Hg

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- 4. Chapter: Unit 04: Chemical Formulas and Equations
- 1. Unit 04: Chemical Formulas and Equations Questions

4.1.1. Alanine, one of the essential amino acids, has three carbon atoms, ...

#### Author: Joanna Smithback

Alanine, one of the essential amino acids, has three carbon atoms, seven hydrogen atoms, two oxygen atoms, and one nitrogen atom per molecule. How is its formula written?

Please choose only one answer:

- C[sub]3[/sub]H[sub]7[/sub]NO[sub]2[/sub]
- Ca[sub]3[/sub]H[sub]7[/sub]NO[sub]2[/sub]
- C[sub]3[/sub]H[sub]7[/sub]NeO[sub]2[/sub]
- CHNO[sub]2[/sub]

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#### Author: Joanna Smithback

Boron forms a series of hydrides. If you isolate a new hydride that is 81.1% B, which of the following would be a possible molecular formula of the compound?

Please choose only one answer:

- B[sub]2[/sub]H[sub]6[/sub]
- B[sub]3[/sub]H[sub]9[/sub]
- B[sub]4[/sub]H[sub]10[/sub]
- B[sub]10[/sub]H[sub]14[/sub]

Check the answer of this question online at QuizOver.com: Question: Boron forms a series of hydrides. If you Joanna Smithback @Saylor

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Interactive Question: http://www.quizover.com/question/boron-forms-a-series-of-hydrides-if-you-joanna-smithback-saylor?pdf=1505 4.1.3. How many moles are contained in 0.206 g of potassium sulfate?

#### Author: Joanna Smithback

How many moles are contained in 0.206 g of potassium sulfate?

Please choose only one answer:

- 1.63 x 10[sup]-3[/sup] mol
- 846 mol
- 1.52 x 10[sup]-3[/sup] mol
- 1.18 x 10[sup]-3[/sup] mol

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4.1.4. How many moles are contained in 13.8 g of BaCl[sub]2[/sub] • 2...

Author: Joanna Smithback

How many moles are contained in 13.8 g of BaCl[sub]2[/sub] • 2 H[sub]2[/sub]O?

Please choose only one answer:

- 17.7 mol
- 0.0565 mol
- 0.0610 mol
- 0.0663 mol

Check the answer of this question online at QuizOver.com: Question: How many moles are contained in 13.8 g of Joanna Smithback @Saylor

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4.1.5. How many moles are there in 10.0 g of CuSO[sub]4[/sub] • 5 H[s...

Author: Joanna Smithback

How many moles are there in 10.0 g of CuSO[sub]4[/sub] • 5 H[sub]2[/sub]O?

Please choose only one answer:

- 0.0401 mol
- 0.0627 mol
- 25.0 mol
- 0.0563 mol

Check the answer of this question online at QuizOver.com: Question: How many moles are there in 10.0 g of CuSO Joanna Smithback @Saylor

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4.1.6. The compound HSCH[sub]2[/sub]CHNH[sub]2[/sub]COOH is the amino acid...

#### Author: Joanna Smithback

The compound HSCH[sub]2[/sub]CHNH[sub]2[/sub]COOH is the amino acid cysteine. How many H atoms are there in 0.150 g of cysteine?

Please choose only one answer:

- 7.47 x 10[sup]20[/sup] atoms
- 6.02 x 10[sup]23[/sup] atoms
- 5.22 x 10[sup]21[/sup] atoms
- 2.09 x 10[sup]22[/sup] atoms

Check the answer of this question online at QuizOver.com: Question: The compound HSCH sub 2 /sub CHNH sub 2 Joanna Smithback @Saylor

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#### Author: Joanna Smithback

The density of liquid benzene, C[sub]6[/sub]H[sub]6[/sub], is 0.879 g/cm[sup]3[/sup] at 15°C. How many moles are there in 36.5 mL of benzene at 15°C?

Please choose only one answer:

- 2.43 mol
- 0.467 mol
- 0.411 mol
- 0.532 mol

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# 4.1.8. What is the correct formula for iron (II) sulfate?

Author: Joanna Smithback

What is the correct formula for iron (II) sulfate?

Please choose only one answer:

- Fe[sub]2[/sub](SO[sub]3[/sub])[sub]3[/sub]
- Fe[sub]2[/sub](SO[sub]4[/sub])[sub]3[/sub]
- FeSO[sub]4[/sub]
- Fe[sub]3[/sub](SO[sub]4[/sub])[sub]2[/sub]

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# 4.1.9. What is the correct name for NO[sub]2[/sub]?

Author: Joanna Smithback

What is the correct name for NO[sub]2[/sub]?

Please choose only one answer:

- dinitrogen oxide
- nitrogen oxide
- nitrogen dioxide
- nitroxide

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## 4.1.10. What is the molar mass of ammonium carbonate?

#### Author: Joanna Smithback

What is the molar mass of ammonium carbonate?

Please choose only one answer:

- 96.09 g/mol
- 88.05 g/mol
- 78.05 g/mol
- 112.09 g/mol

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## 4.1.11. What is the molar mass of disulfur decafluoride?

#### Author: Joanna Smithback

What is the molar mass of disulfur decafluoride?

Please choose only one answer:

- 127.05 g/mol
- 358.60 g/mol
- 222.04 g/mol
- 254.10 g/mol

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4.1.12. What is the molar mass of hydrazine, N[sub]2[/sub]H[sub]4[/sub]?

#### Author: Joanna Smithback

What is the molar mass of hydrazine, N[sub]2[/sub]H[sub]4[/sub]?

Please choose only one answer:

- 4.08 g/mol
- 28.00 g/mol
- 16.03 g/mol
- 32.05 g/mol

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# 4.1.13. Which combination of ion name and formula is correct?

#### Author: Joanna Smithback

Which combination of ion name and formula is correct?

Please choose only one answer:

- Nitrite, NO[sub]2[/sub]-
- Sulfate, SO[sub]3[/sub][sup]2-[/sup]
- Cyanide, C[sub]2[/sub]N[sub]3[/sub]-
- Permanganate, MnO[sub]3[/sub]-

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## 4.1.14. Which combination of name and formula below is correct?

#### Author: Joanna Smithback

Which combination of name and formula below is correct?

Please choose only one answer:

- ammonia, NH
- HBr[sub]2[/sub], hydrogen bromide
- sulfur dioxide, SO[sub]2[/sub]
- carbon monoxide, CO[sub]2[/sub]

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4.1.15. Which of the following accurately lists some common ions based on m...

Author: Joanna Smithback

Which of the following accurately lists some common ions based on metals?

Please choose only one answer:

- Na[sup]+[/sup], Ca[sup]2+[/sup], Zn[sup]2+[/sup]
- Na[sup]-[/sup], K[sup]2+[/sup], Cu[sup]2+[/sup]
- Li[sup]2+[/sup], Ba[sup]3+[/sup], Ag[sup]2+[/sup]
- Fe[sup]+[/sup], Ba[sup]4+[/sup], Al[sup]2+[/sup]

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4.1.16. Which of the following accurately lists some common ions based on G...

Author: Joanna Smithback

Which of the following accurately lists some common ions based on Group 6A elements?

Please choose only one answer:

- O[sup]2+[/sup], S[sup]2+[/sup], Se[sup]2+[/sup]
- O[sup]2-[/sup], S[sup]2-[/sup], Se[sup]2-[/sup]
- O[sup]2-[/sup], N[sup]3-[/sup], F[sup]-[/sup]
- Cl[sup]-[/sup], O[sup]2+[/sup], Al[sup]3+[/sup]

Check the answer of this question online at QuizOver.com: Question: Which of the following accurately lists Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-accurately-lists-joanna-smithback-saylo-9425100?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-accurately-lists-joanna-smithback-saylo-9425100?pdf=1505

4.1.17. Which of the following gives the ions present and their relative nu...

## Author: Joanna Smithback

Which of the following gives the ions present and their relative numbers in sodium carbonate?

Please choose only one answer:

- 2 Li+ and 1 CO[sub]3[/sub]2-
- 1 Na+ and 1 CO[sub]3[/sub]2-
- 2 Na+ and 1 CO[sub]3[/sub]2-
- 1 Na+ and 2 CO[sub]3[/sub]2-

Check the answer of this question online at QuizOver.com: Question: Which of the following gives the ions Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-gives-the-ions-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-gives-the-ions-joanna-smithback-saylor-general?pdf=1505

4.1.18. Which of the following gives the ions present and their relative nu...

Author: Joanna Smithback

Which of the following gives the ions present and their relative numbers in iron (III) phosphate?

Please choose only one answer:

- 3 Fe[sup]2+[/sup] and 2 PO[sub]4[/sub][sup]3-[/sup]
- 1 Fe[sup]3+[/sup] and 1 PO[sub]4[/sub][sup]3-[/sup]
- 2 Fe[sup]2+[/sup] and 3 PO[sub]4[/sub][sup]3-[/sup]
- 3 Fe[sup]3+[/sup] and 2 PO[sub]4[/sub][sup]3-[/sup]

Check the answer of this question online at QuizOver.com: Question: Which of the following gives the ions Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-gives-the-ions-joanna-smithback-saylor--9425312?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-gives-the-ions-joanna-smithback-saylor--9425312?pdf=1505

- 4. Chapter: Unit 02: The Atom
- 1. Unit 02: The Atom Questions

4.1.1. If red light has a frequency of 4.28 x 10[sup]14[/sup] Hz, what is ...

## Author: Joanna Smithback

If red light has a frequency of 4.28 x 10[sup]14[/sup] Hz, what is the wavelength of this light?(1 Hz = 1 cycle per second; speed of light =  $3.0 \times 10[sup]8[/sup] m/s$ ; 1 nm =  $1.0 \times 10[sup]-9[/sup] m$ )

Please choose only one answer:

- 0.650 nm
- 2.10 nm
- 65.0 nm
- 700 nm

Check the answer of this question online at QuizOver.com: Question: If red light has a frequency of 4.28 x 1 Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/if-red-light-has-a-frequency-of-4-28-x-1-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/if-red-light-has-a-frequency-of-4-28-x-1-joanna-smithback-saylor?pdf=1505 4.1.2. If the frequency is observed to be 1.00 x 10[sup]12[/sup] Hz for a ...

# Author: Joanna Smithback

If the frequency is observed to be  $1.00 \times 10[sup]12[/sup]$  Hz for a microwave signal, what is the wavelength of this radiation in centimeters? (1 Hz = 1 cycle per second; speed of light =  $3.0 \times 10[sup]8[/sup]$  m/s; 1 cm =  $1.0 \times 10[sup]-2[/sup]$  m)

Please choose only one answer:

- 3.00 x 10[sup]-4[/sup] cm
- 3.00 x 10[sup]-2[/sup] cm
- 3.34 cm
- 3340 cm

Check the answer of this question online at QuizOver.com: Question: If the frequency is observed to be 1.00 Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/if-the-frequency-is-observed-to-be-1-00-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/if-the-frequency-is-observed-to-be-1-00-joanna-smithback-saylor?pdf=1505 4.1.3. If the wavelength of ultraviolet light is 125 nanometers, what is t...

# Author: Joanna Smithback

If the wavelength of ultraviolet light is 125 nanometers, what is the energy of one quantum of this radiation? (1 Hz = 1 cycle per second; speed of light =  $3.0 \times 10[sup]8[/sup] m/s$ ; 1 nm =  $1.0 \times 10[sup]-9[/sup] m$ ; h = Planck's constant =  $6.6261 \times 10[sup]-34[/sup] J \cdot s$ )

Please choose only one answer:

- 6.19 x 10[sup]-14[/sup] J
- 1.59 x 10[sup]-18[/sup] J
- 3.60 x 10[sup]-23[/sup] J
- 9.24 x 10[sup]-40[/sup] J

Check the answer of this question online at QuizOver.com: Question: If the wavelength of ultraviolet light is Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/if-the-wavelength-of-ultraviolet-light-is-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/if-the-wavelength-of-ultraviolet-light-is-joanna-smithback-saylor?pdf=1505 4.1.4. What element has the electron configuration 1s[sup]2[/sup] 2s[sup]2...

# Author: Joanna Smithback

What element has the electron configuration 1s[sup]2[/sup] 2s[sup]2[/sup] 2p[sup]6[/sup] 3s[sup]2[/sup] 3p[sup]4[/sup]?

Please choose only one answer:

- 0
- S
- Se
- Si

Check the answer of this question online at QuizOver.com: Question: What element has the electron configuration Joanna @Saylor Foundat

Flashcards: http://www.quizover.com/flashcards/what-element-has-the-electron-configuration-joanna-saylor-foundat?pdf=1505

Interactive Question: http://www.quizover.com/question/what-element-has-the-electron-configuration-joanna-saylor-foundat?pdf=1505 4.1.5. What element has the electron configuration 1s[sup]2[/sup] 2s[sup]2...

# Author: Joanna Smithback

What element has the electron configuration 1s[sup]2[/sup] 2s[sup]2[/sup] 2p[sup]6[/sup] 3s[sup]2[/sup] 3p[sup]6[/sup] 4s[sup]2[/sup] 3d[sup]10[/sup] 4p[sup]3[/sup]?

Please choose only one answer:

- Ga
- P
- V
- As

Check the answer of this question online at QuizOver.com: Question: What element has the electron configuration Joanna @Saylor Foundat

Flashcards: http://www.quizover.com/flashcards/what-element-has-the-electron-configuration-joanna-saylor-foun-9425881?pdf=1505

Interactive Question: http://www.quizover.com/question/what-element-has-the-electron-configuration-joanna-saylor-foun-9425881?pdf=1505 4.1.6. What element has the electron configuration [Rn] 5f[sup]3[/sup] 6d[...

## Author: Joanna Smithback

What element has the electron configuration [Rn] 5f[sup]3[/sup] 6d[sup]1[/sup] 7s[sup]2[/sup]?

Please choose only one answer:

- U
- Nd
- Ta
- Bi

Check the answer of this question online at QuizOver.com: Question: What element has the electron configuration Joanna @Saylor Foundat

Flashcards:

http://www.quizover.com/flashcards/what-element-has-the-electron-configuration-joanna-saylor-foun-9425994?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-element-has-the-electron-configuration-joanna-saylor-foun-9425994?pdf=1505

4.1.7. What element has the electron configuration [Xe] 4f[sup]14[/sup] 5d...

#### Author: Joanna Smithback

What element has the electron configuration [Xe] 4f[sup]14[/sup] 5d[sup]10[/sup] 6s[sup]2[/sup]?

Please choose only one answer:

- Hf
- Pb
- Lu
- Sn

Check the answer of this question online at QuizOver.com: Question: What element has the electron configuration Joanna @Saylor Foundat

Flashcards:

http://www.quizover.com/flashcards/what-element-has-the-electron-configuration-joanna-saylor-foun-9426100?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-element-has-the-electron-configuration-joanna-saylor-foun-9426100?pdf=1505

# 4.1.8. What is the correct electron configuration for the tin (II) ion?

Author: Joanna Smithback

What is the correct electron configuration for the tin (II) ion?

Please choose only one answer:

- [Kr] 5s[sup]2[/sup] 5p[sup]2[/sup] 4d[sup]10[/sup]
- [Kr] 5s[sup]2[/sup] 5p[sup]2[/sup] 4d[sup]8[/sup]
- [Kr] 5s[sup]2[/sup] 4d[sup]10[/sup]
- [Kr] 5p[sup]2[/sup] 4d[sup]10[/sup]

Check the answer of this question online at QuizOver.com: Question: What is the correct electron configuration Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-correct-electron-configuration-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-correct-electron-configuration-joanna-smithback-saylor?pdf=1505

# 4.1.9. What is the electron configuration of Br[sup]-[/sup]?

# Author: Joanna Smithback

What is the electron configuration of Br[sup]-[/sup]?

Please choose only one answer:

- [Ar] 4s[sup]2[/sup] 4p[sup]5[/sup]
- [Ar] 4s[sup]2[/sup] 4p[sup]6[/sup]
- [Kr] 4s[sup]2[/sup] 4p[sup]6[/sup]
- [Kr]

Check the answer of this question online at QuizOver.com: Question: What is the electron configuration of Br Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-electron-configuration-of-br-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-electron-configuration-of-br-joanna-smithback-saylor?pdf=1505

# 4.1.10. What is the electron configuration of Se[sup]2-[/sup]?

# Author: Joanna Smithback

What is the electron configuration of Se[sup]2-[/sup]?

Please choose only one answer:

- [Ar] 4s[sup]2[/sup] 4p[sup]6[/sup]
- [Ar] 4s[sup]2[/sup] 4p[sup]8[/sup]
- [Ar] 4s[sup]2[/sup] 3d[sup]10[/sup] 4p[sup]6[/sup]
- [Ar]

Check the answer of this question online at QuizOver.com: Question: What is the electron configuration of Se Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-electron-configuration-of-se-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-electron-configuration-of-se-joanna-smithback-saylor?pdf=1505

4.1.11. What is the frequency in megahertz of a radio set that is broadcast...

## Author: Joanna Smithback

What is the frequency in megahertz of a radio set that is broadcasting at 99.9 meters?(1 Hz = 1 cycle per second; speed of light =  $3.0 \times 10[sup]8[/sup] m/s$ ; 1 nm =  $1.0 \times 10[sup]-9[/sup] m$ )

Please choose only one answer:

- 3.00 MHz
- 15.7 MHz
- 33.3 MHz
- 299 MHz

Check the answer of this question online at QuizOver.com: Question: What is the frequency in megahertz of a Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/what-is-the-frequency-in-megahertz-of-a-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/what-is-the-frequency-in-megahertz-of-a-joanna-smithback-saylor?pdf=1505 4.1.12. What is the frequency in megahertz of a radio station that broadcas...

# Author: Joanna Smithback

What is the frequency in megahertz of a radio station that broadcasts at a wavelength of 325 centimeters? (1 MHz =  $1.00 \times 10[sup]6[/sup]$  cycles per second; 1 Hz = 1 cycle per second; speed of light =  $3.0 \times 10[sup]8[/sup]$  m/s; 1 cm =  $1.0 \times 10[sup]-2[/sup]$  m)

Please choose only one answer:

- 22.1 MHz
- 67.1 MHz
- 92.2 MHz
- 108 MHz

Check the answer of this question online at QuizOver.com: Question: What is the frequency in megahertz of a Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-frequency-in-megahertz-of-a-joanna-smithback-saylo-9426812?pdf=1505

Interactive Question: http://www.quizover.com/question/what-is-the-frequency-in-megahertz-of-a-joanna-smithback-saylo-9426812?pdf=1505 4.1.13. Which noble gas symbol would be used for the noble gas notation for...

## Author: Joanna Smithback

Which noble gas symbol would be used for the noble gas notation for the electron configuration of the element platinum?

Please choose only one answer:

- Ar
- Kr
- Xe
- Rn

Check the answer of this question online at QuizOver.com: Question: Which noble gas symbol would be used for Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/which-noble-gas-symbol-would-be-used-for-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/which-noble-gas-symbol-would-be-used-for-joanna-smithback-saylor?pdf=1505 4.1.14. Which of the following answers gives the correct number of subatomi...

# Author: Joanna Smithback

Which of the following answers gives the correct number of subatomic particles contained in the carbon-13 isotope?

Please choose only one answer:

- 6 protons, 6 neutrons, 6 electrons
- 6 protons, 7 neutrons, 6 electrons
- 7 protons, 7 neutrons, 6 electrons
- 6 protons, 7 neutrons, 7 electrons

Check the answer of this question online at QuizOver.com: Question: Which of the following answers gives the Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/which-of-the-following-answers-gives-the-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/which-of-the-following-answers-gives-the-joanna-smithback-saylor?pdf=1505 4.1.15. Which of the following elements has three unpaired electrons when i...

# Author: Joanna Smithback

Which of the following elements has three unpaired electrons when it is a +2 ion?

Please choose only one answer:

- zinc
- strontium
- zirconium
- cobalt

Check the answer of this question online at QuizOver.com: Question: Which of the following elements has three Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-elements-has-three-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-elements-has-three-joanna-smithback-saylor?pdf=1505

# 4.1.16. Which of the following elements is a d-block element?

#### Author: Joanna Smithback

Which of the following elements is a d-block element?

Please choose only one answer:

- copper
- chlorine
- aluminum
- sodium

Check the answer of this question online at QuizOver.com: Question: Which of the following elements is a d Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-elements-is-a-d-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-elements-is-a-d-joanna-smithback-saylor-general?pdf=1505

# 4.1.17. Which of the following has the longest wavelength?

#### Author: Joanna Smithback

Which of the following has the longest wavelength?

Please choose only one answer:

- blue light
- red light
- yellow light
- green light

Check the answer of this question online at QuizOver.com: Question: Which of the following has the longest Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-has-the-longest-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-has-the-longest-joanna-smithback-saylor-general?pdf=1505

4.1.18. Which of the following is expected to have the largest radius?

## Author: Joanna Smithback

Which of the following is expected to have the largest radius?

Please choose only one answer:

- P[sup]3-[/sup]
- S[sup]2-[/sup]
- Cl[sup]-[/sup]
- Ar

Check the answer of this question online at QuizOver.com: Question: Which of the following is expected to have Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-expected-to-have-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-expected-to-have-joanna-smithback-saylor?pdf=1505

4.1.19. Which of the following is expected to have the smallest radius?

## Author: Joanna Smithback

Which of the following is expected to have the smallest radius?

Please choose only one answer:

- S[sup]2-[/sup]
- K[sup]+[/sup]
- Cl[sup]-[/sup]
- Ca[sup]2+[/sup]

Check the answer of this question online at QuizOver.com: Question: Which of the following is expected to have Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-expected-to-have-joanna-smithback-sa-9427677?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-expected-to-have-joanna-smithback-sa-9427677?pdf=1505

4.1.20. Which of the following is the written name for an isotope that has ...

### Author: Joanna Smithback

Which of the following is the written name for an isotope that has 108 neutrons, 73 protons, and 73 electrons?

Please choose only one answer:

- [sup]181[/sup]Ta
- [sup]108[/sup]Ta
- [sup]73[/sup]Ta
- [sup]146[/sup]Ta

Check the answer of this question online at QuizOver.com: Question: Which of the following is the written name Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-the-written-name-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-the-written-name-joanna-smithback-saylor?pdf=1505

4.1.21. Which of the following produces radiation with the highest frequency?

#### Author: Joanna Smithback

Which of the following produces radiation with the highest frequency?

Please choose only one answer:

- microwave oven
- AM radio
- radar
- FM radio

Check the answer of this question online at QuizOver.com: Question: Which of the following produces radiation Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-produces-radiation-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-produces-radiation-joanna-smithback-saylor?pdf=1505

4.1.22. Which type of element below has atomic sizes that remain almost ide...

#### Author: Joanna Smithback

Which type of element below has atomic sizes that remain almost identical across a period?

Please choose only one answer:

- main group metals
- main group nonmetals
- transition metal elements
- none of the above

Check the answer of this question online at QuizOver.com: Question: Which type of element below has atomic Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-type-of-element-below-has-atomic-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-type-of-element-below-has-atomic-joanna-smithback-saylor-general?pdf=1505

- 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

Check the answer of this question online at QuizOver.com: Question: According to Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/according-to-valence-shell-electron-pair-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/according-to-valence-shell-electron-pair-joanna-smithback-saylor?pdf=1505 4.1.2. 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 trigonal planar geometry?

Please choose only one answer:

- three
- four
- five
- six

Check the answer of this question online at QuizOver.com: Question: According to Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/according-to-valence-shell-electron-pair-joanna-smithback-sayl-9428353?pdf=1505

Interactive Question: http://www.quizover.com/question/according-to-valence-shell-electron-pair-joanna-smithback-sayl-9428353?pdf=1505 4.1.3. 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 trigonal pyramidal geometry?

Please choose only one answer:

- three
- four
- five
- six

Check the answer of this question online at QuizOver.com: Question: According to Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/according-to-valence-shell-electron-pair-joanna-smithback-sayl-9428482?pdf=1505

Interactive Question: http://www.quizover.com/question/according-to-valence-shell-electron-pair-joanna-smithback-sayl-9428482?pdf=1505 4.1.4. Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

#### 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

Check the answer of this question online at QuizOver.com: Question: Based on the Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/based-on-the-valence-shell-electron-pair-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/based-on-the-valence-shell-electron-pair-joanna-smithback-saylor?pdf=1505 4.1.5. Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

### 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

Check the answer of this question online at QuizOver.com: Question: Based on the Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9428741?pdf=1505

Interactive Question: http://www.quizover.com/question/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9428741?pdf=1505 4.1.6. Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

### 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

Check the answer of this question online at QuizOver.com: Question: Based on the Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9428880?pdf=1505

Interactive Question: http://www.quizover.com/question/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9428880?pdf=1505 4.1.7. Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

#### 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°)

Check the answer of this question online at QuizOver.com: Question: Based on the Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9429016?pdf=1505

Interactive Question: http://www.quizover.com/question/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9429016?pdf=1505 4.1.8. Based on the Valence Shell Electron Pair Repulsion Theory (VSEPR), ...

## 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°)

Check the answer of this question online at QuizOver.com: Question: Based on the Valence Shell Electron Pair Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9429153?pdf=1505

Interactive Question: http://www.quizover.com/question/based-on-the-valence-shell-electron-pair-joanna-smithback-sayl-9429153?pdf=1505 4.1.9. Eighteen electrons are present in the Lewis structure of which of t...

#### 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

Check the answer of this question online at QuizOver.com: Question: Eighteen electrons are present in the Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/eighteen-electrons-are-present-in-the-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/eighteen-electrons-are-present-in-the-joanna-smithback-saylor-general?pdf=1505
### 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

Check the answer of this question online at QuizOver.com: Question: How many lobes exist for a dyz orbital Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/how-many-lobes-exist-for-a-dyz-orbital-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/how-many-lobes-exist-for-a-dyz-orbital-joanna-smithback-saylor-general?pdf=1505

### 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

Check the answer of this question online at QuizOver.com: Question: How many p orbitals are there Joanna Smithback @Saylor Foundat General

Flashcards:

http://www.quizover.com/flashcards/how-many-p-orbitals-are-there-joanna-smithback-saylor-foundat-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/how-many-p-orbitals-are-there-joanna-smithback-saylor-foundat-general?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: How many valence electrons are expected Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/how-many-valence-electrons-are-expected-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/how-many-valence-electrons-are-expected-joanna-smithback-saylor?pdf=1505

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]

Check the answer of this question online at QuizOver.com: Question: In which of the following pairs of molecules Joanna @Saylor Foundat

Flashcards:

http://www.quizover.com/flashcards/in-which-of-the-following-pairs-of-molecules-joanna-saylor-foundat?pdf=1505

Interactive Question:

http://www.quizover.com/question/in-which-of-the-following-pairs-of-molecules-joanna-saylor-foundat?pdf=1505

# 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°

Check the answer of this question online at QuizOver.com: Question: What is the approximate H-B-H angle in BH Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-approximate-h-b-h-angle-in-bh-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-approximate-h-b-h-angle-in-bh-joanna-smithback-saylor?pdf=1505

# 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°

Check the answer of this question online at QuizOver.com: Question: What is the approximate I-N-I angle in NI Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-approximate-i-n-i-angle-in-ni-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-approximate-i-n-i-angle-in-ni-joanna-smithback-saylor?pdf=1505

## 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.

Check the answer of this question online at QuizOver.com: Question: What is the hybridization of the oxygen Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-hybridization-of-the-oxygen-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-hybridization-of-the-oxygen-joanna-smithback-saylor?pdf=1505

### 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

Check the answer of this question online at QuizOver.com: Question: Which molecule contains a double bond Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-molecule-contains-a-double-bond-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-molecule-contains-a-double-bond-joanna-smithback-saylor-general?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: Which of the following best describes the Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/which-of-the-following-best-describes-the-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/which-of-the-following-best-describes-the-joanna-smithback-saylor?pdf=1505 4.1.19. 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 highly ionic bonds?

Please choose only one answer:

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

Check the answer of this question online at QuizOver.com: Question: Which of the following combinations of Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-combinations-of-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-combinations-of-joanna-smithback-saylor-general?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: Which of the following combinations of Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-combinations-of-joanna-smithback-saylor-9431917?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-combinations-of-joanna-smithback-saylor-9431917?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: Which of the following elements is most Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-elements-is-most-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-elements-is-most-joanna-smithback-saylor?pdf=1505

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

Check the answer of this question online at QuizOver.com: Question: Which of the following elements is most Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/which-of-the-following-elements-is-most-joanna-smithback-saylo-9432604?pdf=1505

Interactive Question: http://www.quizover.com/question/which-of-the-following-elements-is-most-joanna-smithback-saylo-9432604?pdf=1505

- 4. Chapter: Unit 06: Thermochemistry and Thermodynamics
- 1. Unit 06: Thermochemistry and Thermodynamics Questions

4.1.1. A 5.10 g sample of iron is heated from 36.0°C to 75.0°C. Th...

#### Author: Joanna Smithback

A 5.10 g sample of iron is heated from 36.0°C to 75.0°C. The amount of energy required in 89.5 J. What is the specific heat capacity of iron?

Please choose only one answer:

- 17800 J/g °C
- 0.900 J/g °C
- 11.7 J/g °C
- 0.450 J/g °C

Check the answer of this question online at QuizOver.com: Question: A 5.10 g sample of iron is heated from 3 Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/a-5-10-g-sample-of-iron-is-heated-from-3-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/a-5-10-g-sample-of-iron-is-heated-from-3-joanna-smithback-saylor?pdf=1505 4.1.2. A 6.75 g sample of gold (specific heat capacity = 0.13 J/g °C) ...

#### Author: Joanna Smithback

A 6.75 g sample of gold (specific heat capacity =  $0.13 \text{ J/g} \circ \text{C}$ ) is heated using 50.6 J of energy. If the original temperature of the gold is 25 °C, what is its final temperature?

Please choose only one answer:

- 82.7 °C
- 57.7 °C
- 24.4 °C
- 43.4 °C

Check the answer of this question online at QuizOver.com: Question: A 6.75 g sample of gold specific heat Joanna Smithback @Saylor General

Flashcards: http://www.quizover.com/flashcards/a-6-75-g-sample-of-gold-specific-heat-joanna-smithback-saylor-general?pdf=1505

Interactive Question: http://www.quizover.com/question/a-6-75-g-sample-of-gold-specific-heat-joanna-smithback-saylor-general?pdf=1505

### 4.1.3. A negative Gibbs free energy means a reaction will

#### Author: Joanna Smithback

A negative Gibbs free energy means a reaction will

Please choose only one answer:

- be spontaneous.
- react quickly.
- Both A and B
- None of the above

Check the answer of this question online at QuizOver.com: Question: A negative Gibbs free energy means a Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/a-negative-gibbs-free-energy-means-a-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/a-negative-gibbs-free-energy-means-a-joanna-smithback-saylor-general?pdf=1505

### 4.1.4. Exothermic reactions are favored because they:

#### Author: Joanna Smithback

Exothermic reactions are favored because they:

Please choose only one answer:

- Increase entropy of the surroundings
- Increase entropy of the system
- Decrease entropy of the surroundings
- Decrease entropy of the system

Check the answer of this question online at QuizOver.com: Question: Exothermic reactions are favored because Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/exothermic-reactions-are-favored-because-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/exothermic-reactions-are-favored-because-joanna-smithback-saylor?pdf=1505

4.1.5. For the following general reaction, what can be said about the spon...

#### Author: Joanna Smithback

For the following general reaction, what can be said about the spontaneity at different temperatures? A + B C + D;  $H^{\circ}$  is positive;  $S^{\circ}$  is negative.

Please choose only one answer:

- product-favored at all temperatures
- product-favored only at high temperature
- product-favored only at low temperature
- product not-favored at any temperature

Check the answer of this question online at QuizOver.com: Question: For the following general reaction what Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/for-the-following-general-reaction-what-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/for-the-following-general-reaction-what-joanna-smithback-saylor?pdf=1505 4.1.6. Given the following information, which of the following answers pro...

#### Author: Joanna Smithback

Given the following information, which of the following answers provides the calculation of  $?G^{\circ}$  for the reaction below at 25°C? H[sub]2[/sub]O(g) + S(s) H[sub]2[/sub]S(g) + 1/2 O[sub]2[/sub](g) ?H^{\circ} = +221.2 kJ ?S^{\circ} = +87.7 J/K

Please choose only one answer:

- 247.3 kJ
- -195.1 kJ
- 219.0 kJ
- 195.1 kJ

Check the answer of this question online at QuizOver.com: Question: Given the following information which of Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/given-the-following-information-which-of-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/given-the-following-information-which-of-joanna-smithback-saylor?pdf=1505 4.1.7. Use the following thermochemical equations to solve for the value o...

#### Author: Joanna Smithback

Use the following thermochemical equations to solve for the value of  $?H^{\circ}$  for the reaction: 2F[sub]2[/sub](g) + 2H[sub]2[/sub]O(I) 4 HF(g) + O[sub]2[/sub](g).  $H[sub]2[/sub](g) + F[sub]2[/sub](g) 2 HF(g) ?H^{\circ} = -542 kJ 2 H[sub]2[/sub](g) + O[sub]2[/sub](g) 2 H[sub]2[/sub]O(I) ?H^{\circ} = -572 kJ$ 

Please choose only one answer:

- -452 kJ
- -922 kJ
- -1124 kJ
- -512 kJ

Check the answer of this question online at QuizOver.com: Question: Use the following thermochemical equations Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/use-the-following-thermochemical-equations-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/use-the-following-thermochemical-equations-joanna-smithback-saylor?pdf=1505 4.1.8. What is the sign of the enthalpy change for an exothermic reaction?

#### Author: Joanna Smithback

What is the sign of the enthalpy change for an exothermic reaction?

Please choose only one answer:

- positive
- This cannot be determined from the information given.
- negative
- It depends on the temperature.

Check the answer of this question online at QuizOver.com: Question: What is the sign of the enthalpy change Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-sign-of-the-enthalpy-change-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-sign-of-the-enthalpy-change-joanna-smithback-saylor?pdf=1505

4.1.9. What is the value of the standard enthalpy of formation for any ele...

#### Author: Joanna Smithback

What is the value of the standard enthalpy of formation for any element under standard conditions?

Please choose only one answer:

- 273 J/mol
- 0.24 J/mol
- 4.18 J/mol
- 0 J/mol

Check the answer of this question online at QuizOver.com: Question: What is the value of the standard enthalpy Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/what-is-the-value-of-the-standard-enthalpy-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-value-of-the-standard-enthalpy-joanna-smithback-saylor?pdf=1505

4.1.10. Which of the following answers provides the correct calculation for...

#### Author: Joanna Smithback

Which of the following answers provides the correct calculation for the standard enthalpy change, ?H°, for the formation of 1 mole of strontium carbonate (the material that gives the red color in fireworks) from its elements? Use the information given: Calculate ?H° for the reaction

Please choose only one answer:

- -432 kJ
- -1220 kJ
- 1220 kJ
- 36 kJ

Check the answer of this question online at QuizOver.com: Question: Which of the following answers provides Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-answers-provides-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/which-of-the-following-answers-provides-joanna-smithback-saylor?pdf=1505 4.1.11. Which of the following do you expect to have the largest entropy at...

#### Author: Joanna Smithback

Which of the following do you expect to have the largest entropy at 25°C?

Please choose only one answer:

- H[sub]2[/sub]O(I)
- H[sub]2[/sub]O(s)
- O[sub]2[/sub](g)
- CCI[sub]4[/sub](l)

Check the answer of this question online at QuizOver.com: Question: Which of the following do you expect to Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-do-you-expect-to-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-do-you-expect-to-joanna-smithback-saylor?pdf=1505

## 4.1.12. Which of the following represents an increase in entropy?

#### Author: Joanna Smithback

Which of the following represents an increase in entropy?

Please choose only one answer:

- freezing of water
- boiling of water
- crystallization of salt from a supersaturated solution
- the reaction 2 NO(g) N[sub]2[/sub]O[sub]2[/sub](g)

Check the answer of this question online at QuizOver.com: Question: Which of the following represents an Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-represents-an-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-represents-an-joanna-smithback-saylor-general?pdf=1505

- 4. Chapter: Unit 01: Matter and Measurements
- 1. Unit 01: Matter and Measurements Questions

4.1.1. A large orange has a mass of 253 g. What is the mass of this orange...

Author: Joanna Smithback

A large orange has a mass of 253 g. What is the mass of this orange in kilograms?

Please choose only one answer:

- 2.53 kg
- 253,000 kg
- 0.560 kg
- 0.253 kg

Check the answer of this question online at QuizOver.com: Question: A large orange has a mass of 253 g. What Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/a-large-orange-has-a-mass-of-253-g-what-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/a-large-orange-has-a-mass-of-253-g-what-joanna-smithback-saylor?pdf=1505

4.1.2. Convert 16.8 lb to g (1 lb = 453.6 g).

Author: Joanna Smithback

Convert 16.8 lb to g (1 lb = 453.6 g).

Please choose only one answer:

- 762 g
- 3.70 x 10[sup]-2[/sup] g
- 76.2 g
- 7620 g

Check the answer of this question online at QuizOver.com: Question: Convert 16.8 lb to g 1 lb 453.6 g . Joanna Smithback @Saylor Foundat

Flashcards:

http://www.quizover.com/flashcards/convert-16-8-lb-to-g-1-lb-453-6-g-joanna-smithback-saylor-foundat?pdf=1505

Interactive Question:

http://www.quizover.com/question/convert-16-8-lb-to-g-1-lb-453-6-g-joanna-smithback-saylor-foundat?pdf=1505

4.1.3. Convert 17.6 cm to in. (2.54 cm = 1 inch).

Author: Joanna Smithback

Convert 17.6 cm to in. (2.54 cm = 1 inch).

Please choose only one answer:

- 44.7 in.
- 4.47 in.
- 6.93 in.
- 69.3 in.

Check the answer of this question online at QuizOver.com: Question: Convert 17.6 cm to in. 2.54 cm 1 inch . Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/convert-17-6-cm-to-in-2-54-cm-1-inch-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/convert-17-6-cm-to-in-2-54-cm-1-inch-joanna-smithback-saylor?pdf=1505

4.1.4. The density of copper is 8.92 g/mL. The mass of a piece of copper t...

#### Author: Joanna Smithback

The density of copper is 8.92 g/mL. The mass of a piece of copper that has a volume of 10.0 mL is

Please choose only one answer:

- 0.892 g
- 892 g
- 89.2 g
- 8.9 x 10[sup]2[/sup] g

Check the answer of this question online at QuizOver.com: Question: The density of copper is 8.92 g/mL. The Joanna Smithback @Saylor

Flashcards: http://www.quizover.com/flashcards/the-density-of-copper-is-8-92-g-ml-the-joanna-smithback-saylor?pdf=1505

Interactive Question: http://www.quizover.com/question/the-density-of-copper-is-8-92-g-ml-the-joanna-smithback-saylor?pdf=1505

4.1.5. Water is an example of a(n)	
------------------------------------	--

Author: Joanna Smithback

Water is an example of a(n) \_\_\_\_\_

Please choose only one answer:

- homogeneous mixture
- heterogeneous mixture
- compound
- element

Check the answer of this question online at QuizOver.com: Question: Water is an example of a n . Joanna Smithback @Saylor Foundat General

Flashcards:

http://www.quizover.com/flashcards/water-is-an-example-of-a-n-joanna-smithback-saylor-foundat-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/water-is-an-example-of-a-n-joanna-smithback-saylor-foundat-general?pdf=1505

4.1.6. How many significant figures are in the number 4.00700 x 10[sup]13[...

#### Author: Joanna Smithback

How many significant figures are in the number 4.00700 x 10[sup]13[/sup]?

Please choose only one answer:

- 2
- 4
- 5
- 6

Check the answer of this question online at QuizOver.com: Question: How many significant figures are in the Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/how-many-significant-figures-are-in-the-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/how-many-significant-figures-are-in-the-joanna-smithback-saylor?pdf=1505

## 4.1.7. How many significant figures are there in 0.00024056?

#### Author: Joanna Smithback

How many significant figures are there in 0.00024056?

Please choose only one answer:

- 9
- 5
- 4
- 7

Check the answer of this question online at QuizOver.com: Question: How many significant figures are there in Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/how-many-significant-figures-are-there-in-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/how-many-significant-figures-are-there-in-joanna-smithback-saylor?pdf=1505

4.1.8. If an analytical balance has a calibration error of +0.04 grams, then:

Author: Joanna Smithback

If an analytical balance has a calibration error of +0.04 grams, then:

Please choose only one answer:

- all masses measured will be underestimated by 0.04 grams.
- the balance measures masses accurately.
- all masses measured will be overestimated by 0.04 grams.
- B and C.

Check the answer of this question online at QuizOver.com: Question: If an analytical balance has a calibration Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/if-an-analytical-balance-has-a-calibration-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/if-an-analytical-balance-has-a-calibration-joanna-smithback-saylor?pdf=1505

4.1.9. What is the average of the following numbers: 12.3, 14.8, 20.4, 25....

#### Author: Joanna Smithback

What is the average of the following numbers: 12.3, 14.8, 20.4, 25.9, 26.3?

Please choose only one answer:

- 20.2
- 18.7
- 19.9
- 20.0

Check the answer of this question online at QuizOver.com: Question: What is the average of the following Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/what-is-the-average-of-the-following-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-average-of-the-following-joanna-smithback-saylor-general?pdf=1505

4.1.10. What is the standard deviation for the numbers: 3.5, 4.7, 5.9?

Author: Joanna Smithback

What is the standard deviation for the numbers: 3.5, 4.7, 5.9?

Please choose only one answer:

- 0.98
- 1.02
- 1.20
- 0.94

Check the answer of this question online at QuizOver.com: Question: What is the standard deviation for the Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/what-is-the-standard-deviation-for-the-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-standard-deviation-for-the-joanna-smithback-saylor-general?pdf=1505

4.1.11. What is the standard deviation of the masses: 5.92 g and 6.84 g?

#### Author: Joanna Smithback

What is the standard deviation of the masses: 5.92 g and 6.84 g?

Please choose only one answer:

- 0.16
- 0.33
- 0.65
- 1.30

Check the answer of this question online at QuizOver.com: Question: What is the standard deviation of the Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/what-is-the-standard-deviation-of-the-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/what-is-the-standard-deviation-of-the-joanna-smithback-saylor-general?pdf=1505

## 4.1.12. Which of the following definitions is incorrect?

#### Author: Joanna Smithback

Which of the following definitions is incorrect?

Please choose only one answer:

- element: a single type of atom
- pure substance: variable composition
- heterogeneous mixture: two or more substances mixed together containing visible parts or phases
- compounds: two or more atoms present

Check the answer of this question online at QuizOver.com: Question: Which of the following definitions is Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-definitions-is-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-definitions-is-joanna-smithback-saylor-general?pdf=1505

## 4.1.13. Which of the following involves no chemical change?

#### Author: Joanna Smithback

Which of the following involves no chemical change?

Please choose only one answer:

- burning paper
- boiling water
- baking a cake
- lighting a match

Check the answer of this question online at QuizOver.com: Question: Which of the following involves no chemical Joanna @Saylor Foundat

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-involves-no-chemical-joanna-saylor-foundat?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-involves-no-chemical-joanna-saylor-foundat?pdf=1505

4.1.14. Which of the following is a chemical change?

Author: Joanna Smithback

Which of the following is a chemical change?

Please choose only one answer:

- gasoline evaporating
- butter melting
- sugar dissolving in water
- paper burning

Check the answer of this question online at QuizOver.com: Question: Which of the following is a chemical Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-a-chemical-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-a-chemical-joanna-smithback-saylor-general?pdf=1505

## 4.1.15. Which of the following is a chemical change?

#### Author: Joanna Smithback

Which of the following is a chemical change?

Please choose only one answer:

- water boiling
- wine making
- butter melting
- sugar dissolution

Check the answer of this question online at QuizOver.com: Question: Which of the following is a chemical Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-a-chemical-joanna-smithback-saylor-g-9436936?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-a-chemical-joanna-smithback-saylor-g-9436936?pdf=1505

## 4.1.16. Which of the following is a physical change?

#### Author: Joanna Smithback

Which of the following is a physical change?

Please choose only one answer:

- burning gasoline
- digesting pizza
- evaporating alcohol
- rusting iron

Check the answer of this question online at QuizOver.com: Question: Which of the following is a physical Joanna Smithback @Saylor General

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-a-physical-joanna-smithback-saylor-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-a-physical-joanna-smithback-saylor-general?pdf=1505

## 4.1.17. Which of the following is NOT a unit in the SI system of units?

#### Author: Joanna Smithback

Which of the following is NOT a unit in the SI system of units?

Please choose only one answer:

- kilogram
- second
- inch
- meter

Check the answer of this question online at QuizOver.com: Question: Which of the following is NOT a unit in Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-not-a-unit-in-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-not-a-unit-in-joanna-smithback-saylor?pdf=1505

4.1.18. Which of the following symbols does not match the element name alon...

#### Author: Joanna Smithback

Which of the following symbols does not match the element name alongside it?

Please choose only one answer:

- Al, Aluminum
- He, Hydrogen
- K, Potassium
- P, Phosphorus

Check the answer of this question online at QuizOver.com: Question: Which of the following symbols does not Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-symbols-does-not-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-symbols-does-not-joanna-smithback-saylor?pdf=1505

### 4.1.19. Which prefix is used to designate 1/1000?

Author: Joanna Smithback

Which prefix is used to designate 1/1000?

Please choose only one answer:

- m
- M
- k
- C

Check the answer of this question online at QuizOver.com: Question: Which prefix is used to designate 1/1000 Joanna Smithback @Saylor

Flashcards:

http://www.quizover.com/flashcards/which-prefix-is-used-to-designate-1-1000-joanna-smithback-saylor?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-prefix-is-used-to-designate-1-1000-joanna-smithback-saylor?pdf=1505

### 4.1.20. Which statement is true?

Author: Joanna Smithback

Which statement is true?

Please choose only one answer:

- A set of measurements may be accurate but not precise.
- A set of measurements may be precise but not accurate.
- The difference between the true value and measurements is standard deviation.
- None of the above.

Check the answer of this question online at QuizOver.com: Question: Which statement is true Joanna Smithback @Saylor Foundat General

Flashcards:

http://www.quizover.com/flashcards/which-statement-is-true-joanna-smithback-saylor-foundat-general?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-statement-is-true-joanna-smithback-saylor-foundat-general?pdf=1505