

General Chemistry I Unit 02: The Atom

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Table of Contents

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1. Unit 02: The Atom

4. Chapter: Unit 02: The Atom

1. Unit 02: The Atom Questions

4.1.1. If red light has a frequency of 4.28×10^{14} Hz, what is ...

Author: Joanna Smithback

If red light has a frequency of 4.28×10^{14} Hz, what is the wavelength of this light?(1 Hz = 1 cycle per second; speed of light = 3.0×10^8 m/s; 1 nm = 1.0×10^{-9} 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 \times 10^{14}\$ Hz, what is the wavelength of this light?](#) Joanna Smithback @Saylor

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4.1.2. If the frequency is observed to be 1.00×10^{12} Hz for a ...

Author: Joanna Smithback

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

Please choose only one answer:

- 3.00×10^{-4} cm
- 3.00×10^{-2} 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](#)

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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 = 3.0×10^8 m/s; 1 nm = 1.0×10^{-9} m; h = Planck's constant = 6.6261×10^{-34} J • s)

Please choose only one answer:

- 6.19×10^{-14} J
- 1.59×10^{-18} J
- 3.60×10^{-23} J
- 9.24×10^{-40} J

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Question: [If the wavelength of ultraviolet light is Joanna Smithback @Saylor](#)

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4.1.4. What element has the electron configuration $1s^2 2s^2$...

Author: Joanna Smithback

What element has the electron configuration $1s^2 2s^2 2p^6 3s^2 3p^4$?

Please choose only one answer:

- O
- S
- Se
- Si

Check the answer of this question online at QuizOver.com:

Question: [What element has the electron configuration Joanna @Saylor Foundat](#)

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4.1.5. What element has the electron configuration $1s^2 2s^2$...

Author: Joanna Smithback

What element has the electron configuration $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^3$?

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](#)

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4.1.6. What element has the electron configuration $[Rn] 5f^{3} 6d^{1} 7s^{2}$?

Author: Joanna Smithback

What element has the electron configuration $[Rn] 5f^{3} 6d^{1} 7s^{2}$?

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](#)

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4.1.7. What element has the electron configuration $[\text{Xe}] 4f^{14} 5d...$

Author: Joanna Smithback

What element has the electron configuration $[\text{Xe}] 4f^{14} 5d^{10} 6s^2 6p^2$?

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](#)

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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:

- $[\text{Kr}] 5s^2 5p^2 4d^{10}$
- $[\text{Kr}] 5s^2 5p^2 4d^8$
- $[\text{Kr}] 5s^2 4d^{10}$
- $[\text{Kr}] 5p^2 4d^{10}$

Check the answer of this question online at QuizOver.com:

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4.1.9. What is the electron configuration of Br⁻?

Author: Joanna Smithback

What is the electron configuration of Br⁻?

Please choose only one answer:

- [Ar] 4s² 4p⁵
- [Ar] 4s² 4p⁶
- [Kr] 4s² 4p⁶
- [Kr]

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Question: [What is the electron configuration of Br Joanna Smithback @Saylor](#)

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4.1.10. What is the electron configuration of Se^{2-} ?

Author: Joanna Smithback

What is the electron configuration of Se^{2-} ?

Please choose only one answer:

- $[\text{Ar}] 4s^2 4p^6$
- $[\text{Ar}] 4s^2 4p^8$
- $[\text{Ar}] 4s^2 3d^{10} 4p^6$
- $[\text{Ar}]$

Check the answer of this question online at QuizOver.com:

Question: [What is the electron configuration of Se Joanna Smithback @Saylor](#)

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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 = 3.0×10^8 m/s; 1 nm = 1.0×10^{-9} 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](#)

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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 = 1.00×10^6 cycles per second; 1 Hz = 1 cycle per second; speed of light = 3.0×10^8 m/s; 1 cm = 1.0×10^{-2} 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](#)

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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](http://www.quizover.com):

Question: [Which noble gas symbol would be used for Joanna Smithback @Saylor](#)

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4.1.14. Which of the following answers gives the correct number of subatomic particles...

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](#)

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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](#)

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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

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Question: [Which of the following elements is a d Joanna Smithback @Saylor General](#)

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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

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Question: [Which of the following has the longest Joanna Smithback @Saylor General](#)

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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^{3-}
- S^{2-}
- Cl^{-}
- Ar

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Question: [Which of the following is expected to have Joanna Smithback @Saylor](#)

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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^{2-}
- K^{+}
- Cl^{-}
- Ca^{2+}

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Question: [Which of the following is expected to have Joanna Smithback @Saylor](#)

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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:

- ^{181}Ta
- ^{108}Ta
- ^{73}Ta
- ^{146}Ta

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Question: [Which of the following is the written name Joanna Smithback @Saylor](#)

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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

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Question: [Which of the following produces radiation Joanna Smithback @Saylor](#)

Flashcards:

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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

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Question: [Which type of element below has atomic Joanna Smithback @Saylor General](#)

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