

# Natural Sciences

# Chemistry

# Final Exam

# Review

Author: Madison Christian

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## 4. Chapter: Final Exam Review

### 1. Final Exam Review Questions

#### 4.1.1. Which of the following substances would be classified as a homogene...

Author: Madison Christian

Which of the following substances would be classified as a homogeneous solution?

Please choose only one answer:

- water
- copper wire
- concrete
- soft drink
- sodium chloride

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

Question: [Which of the following substances would Madison Christian Final Quest](#)

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#### 4.1.2. When the following equation is balanced, the coefficient of oxygen ...

Author: Madison Christian

When the following equation is balanced, the coefficient of oxygen is \_\_\_\_\_.



Please choose only one answer:

- 1
- 4
- 8
- 13
- 6

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [When the following equation is balanced Madison Christian Final Quest](#)

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#### 4.1.3. Calculate the mass of ammonium nitrate that must be heated to gener...

Author: Madison Christian

Calculate the mass of ammonium nitrate that must be heated to generate 10.0 g N<sub>2</sub>O according to the following balanced chemical equation:



Please choose only one answer:

- 18.2 grams
- 0.227 grams
- 9.10 grams
- 80.1 grams
- 44.0 grams

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

Question: [Calculate the mass of ammonium nitrate Madison Christian Final](#)

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#### 4.1.4. Calculate the molarity of a 2.00L solution of glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) whi...

Author: Madison Christian

Calculate the molarity of a 2.00L solution of glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) which contains 50.0 grams of glucose. ( Don't have the correct answer for this problem yet.)

Please choose only one answer:

- 180. M
- 3.60M
- 0.139M
- 0.277M
- 7.22M

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

Question: [Calculate the molarity of a 2.00L solution Madison Final Exam Quest](#)

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#### 4.1.5. The change in the internal energy of a system that absorbs 2,500 J ...

Author: Madison Christian

The change in the internal energy of a system that absorbs 2,500 J of heat and that does 7,655 J of work on the surrounding is \_\_\_\_\_ J

Please choose only one answer:

- -5,155
- $1.91 \times 10^7$
- 5,155
- 10,155
- -10,155

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

Question: [The change in the internal energy of a Madison Christian Final](#)

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4.1.6. The value of  $\Delta H$  for the reaction below is -126 kJ. \_\_\_\_\_...

Author: Madison Christian

The value of  $\Delta H$  for the reaction below is -126 kJ. \_\_\_\_\_ kJ are released when 2.00 mol of NaOH is formed in the reaction.

$2\text{Na}_2\text{O}_2 (\text{s}) + 2\text{H}_2\text{O} (\text{l}) \rightarrow 4\text{NaOH} (\text{s}) + \text{O}_2 (\text{g})$  (don't have correct answer for yet)

Please choose only one answer:

- -3.9 kJ
- -7.8 kJ
- -126 kJ
- -252 kJ
- -63 kJ

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

Question: [The value of Delta Ho for the reaction Madison Christian Final](#)

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#### 4.1.7. Which of the following NOT isoelectronic with the others? (not sur...

Author: Madison Christian

Which of the following NOT isoelectronic with the others? (not sure of the correct answer)

Please choose only one answer:

- oxide ion
- fluoride ion
- sodium ion
- magnesium ion
- calcium ion

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

Question: [Which of the following NOT isoelectronic Madison Christian Final](#)

Flashcards:

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#### 4.1.8. Which of the ions listed below has the smallest radius? (Not sure o...

Author: Madison Christian

Which of the ions listed below has the smallest radius? (Not sure of the correct answer)

Please choose only one answer:

- Li+
- Na+
- O<sup>2-</sup>
- Cl-
- Ca<sup>2+</sup>

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

Question: [Which of the ions listed below has the Madison Christian Final](#)

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#### 4.1.9. Which of the following is the highest temperature?

Author: Madison Christian

Which of the following is the highest temperature?

Please choose only one answer:

- 96oF
- 302 K
- 38oC
- the freezing point of water

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

Question: [Which of the following is the highest Madison Christian Final Exam](#)

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#### 4.1.10. A 250-ml stoppered flask contains a substance that occupies 25.0 mL...

Author: Madison Christian

A 250-ml stoppered flask contains a substance that occupies 25.0 mL. Which of the following statements is TRUE about the substance in the flask? (Not sure of the correct answer)

Please choose only one answer:

- The substance CANNOT be a solid
- The substance CAN ONLY be a liquid
- The substance CAN ONLY be a gas
- The substance CANNOT be a gas
- The substance CAN ONLY be a liquid

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

Question: [A 250-ml stoppered flask contains a Madison Christian Final Exam](#)

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#### 4.1.11. Which of the following is an example of a physical property?

Author: Madison Christian

Which of the following is an example of a physical property?

Please choose only one answer:

- temperature
- corrosiveness
- flammability
- combustibility
- both b and c

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following is an example of Madison Christian Final Quest](#)

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#### 4.1.12. Which of the following is the lightest subatomic particle?

Author: Madison Christian

Which of the following is the lightest subatomic particle?

Please choose only one answer:

- proton
- neutron
- atom
- nucleus
- electron

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following is the lightest Madison Christian Final](#)

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#### 4.1.13. How many protons are indicated by the symbol $^{35}\text{Cl}$ ?

Author: Madison Christian

How many protons are indicated by the symbol  $^{35}\text{Cl}$ ?

Please choose only one answer:

- 35
- 17
- 18
- 52
- none of the above

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [How many protons are indicated by the Madison Christian Final Exam](#)

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#### 4.1.14. Which of the following has a net positive charge?

Author: Madison Christian

Which of the following has a net positive charge?

Please choose only one answer:

- proton
- neutron
- electron
- atom

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

Question: [Which of the following has a net positive Madison Christian Final](#)

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#### 4.1.15. Which of the following is a correct statement of the law of conserv...

Author: Madison Christian

Which of the following is a correct statement of the law of conservation of matter?

Please choose only one answer:

- Energy is not created or destroyed in a chemical reaction
- Chemical reactions can create new elements
- Chemical reactions involve the rearrangement of nuclei
- Matter is not created nor destroyed in a chemical reaction

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

Question: [Which of the following is a correct Madison Christian Final Exam](#)

Flashcards:

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Interactive Question:

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#### 4.1.16. The change in the internal energy of a system that absorbs 2500 J o...

Author: Madison Christian

The change in the internal energy of a system that absorbs 2500 J of heat and that does 7655 J of work on the surroundings is \_\_\_\_\_ J

Please choose only one answer:

- -5,155
- $1.91 \times 10^7$
- 5,155
- 10,155
- -10,155

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

Question: [The change in the internal energy of a Madison Christian Final](#)

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#### 4.1.17. Which of the following shows the correct balanced chemical equation...

Author: Madison Christian

Which of the following shows the correct balanced chemical equation for the reaction of hydrochloric acid with magnesium metal? (not sure of the correct answer)

Please choose only one answer:

- $\text{HCl (aq)} + 2\text{Mn (s)} \rightarrow \text{Mn}_2\text{Cl (aq)} + \text{H (g)}$
- $\text{HClO (aq)} + \text{Mn (s)} \rightarrow \text{HCl (aq)} + \text{MnO (s)}$
- $2\text{HCl (aq)} + 2\text{Mn (s)} \rightarrow 2\text{MnCl (aq)} + \text{H}_2 \text{ (g)}$
- $2\text{HCl (aq)} + \text{Mn (s)} \rightarrow \text{MnCl}_2 \text{ (aq)} + \text{H}_2 \text{ (g)}$
- None of the above

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Question: [Which of the following shows the correct Madison Christian Final](#)

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