

# Natural Sciences

# Chemistry

# Final Review

Author: Madison Christian

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## 4. Chapter: Chemistry Final Review

### 1. Chemistry Final Review Questions

#### 4.1.1. Which one of the following is an extensive property?

Author: Madison Christian

Which one of the following is an extensive property?

Please choose only one answer:

- density of lead
- boiling point of ethanol
- density of water
- mass of sodium chloride
- melting point of iodine

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

Question: [Which one of the following is an extensive Madison Chemistry Final](#)

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#### 4.1.2. Round the number 1027.538 to four significant figures and express t...

Author: Madison Christian

Round the number 1027.538 to four significant figures and express the result in standard scientific notation.

Please choose only one answer:

- $1.028 \times 10^3$
- $1.028 \times 10^{-3}$
- 1028
- $0.1028 \times 10^3$
- $10.28 \times 10^{-2}$

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

Question: [Round the number 1027.538 to four significant Madison Chemistry Quest](#)

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#### 4.1.3. Which one of the following would be a comfortable room temperature?

Author: Madison Christian

Which one of the following would be a comfortable room temperature?

Please choose only one answer:

- 32°F
- 237K
- 38°C
- 25°C
- none of the above

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

Question: [Which one of the following would be a Madison Christian Chemistry](#)

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#### 4.1.4. Which of the following can be easily separated into individual comp...

Author: Madison Christian

Which of the following can be easily separated into individual components using physical processes such as filtering or decanting?

Please choose only one answer:

- pure substances
- heterogeneous mixture
- homogeneous mixture
- compounds
- elements

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

Question: [Which of the following can be easily Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-can-be-easily-madison-christia-6947002?pdf=1505>

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#### 4.1.5. Which of the following is the same as 0.001cm?

Author: Madison Christian

Which of the following is the same as 0.001cm?

Please choose only one answer:

- 0.01 mm
- 100 m
- 0.1 dm
- 0.01 km
- 0.00001 dm

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

Question: [Which of the following is the same as 0. Madison Christian Chemistry](#)

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#### 4.1.6. What would be the best unit to record the volume of a liquid requir...

Author: Madison Christian

What would be the best unit to record the volume of a liquid required for a cookie recipe?

Please choose only one answer:

- liter
- gram
- milliliter
- kilogram
- gallon

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

Question: [What would be the best unit to record the Madison Christian Chemistry](#)

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4.1.7. Of the following, only \_\_\_\_\_ is a chemical reaction.

Author: Madison Christian

Of the following, only \_\_\_\_\_ is a chemical reaction.

Please choose only one answer:

- crushing aspirin
- Kool-Aid dissolving in water
- sugar melting
- silver tarnishing
- ice melting in water

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

Question: [Of the following only is a chemical reaction Madison Chemistry Quest](#)

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#### 4.1.8. Which of the following can be separated into other substances by ph...

Author: Madison Christian

Which of the following can be separated into other substances by physical means?

Please choose only one answer:

- copper wire
- water
- salt water
- an atom
- none of these

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

Question: [Which of the following can be separated Madison Christian Chemistry](#)

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#### 4.1.9. Which of the following is an illustration of the law of definite pr...

Author: Madison Christian

Which of the following is an illustration of the law of definite proportions?

Please choose only one answer:

- water is a compound
- water can be separated into other substances by chemical processes
- the boiling point of water is constant
- water is 11% hydrogen and 89% oxygen by mass
- water occurs naturally on the earth in all three states

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

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#### 4.1.10. Which of the following is an isotope of $^{60}\text{Co}$ ?

Author: Madison Christian

Which of the following is an isotope of  $^{60}\text{Co}$ ?

Please choose only one answer:

- $^{32}\text{P}$
- $\text{Co}^{3+}$
- $^{58}\text{Co}$
- chalcogens
- halogens

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

Question: [Which of the following is an isotope of Madison Christian Chemistry](http://www.quizover.com/question/question-which-of-the-following-is-an-isotope-of-madison-chris-7326012?pdf=1505)

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Interactive Question:

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#### 4.1.11. Which of the following numbers has the most significant zeros?

Author: Madison Christian

Which of the following numbers has the most significant zeros?

Please choose only one answer:

- 0.00000020510
- $6.023 \times 10^{23}$
- 0.08201
- $4.08400 \times 10^{-7}$
- 0.01020

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

Question: [Which of the following numbers has the Madison Christian Chemistry](#)

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4.1.12. The periodic table is arranged according to \_\_\_\_\_.

Author: Madison Christian

The periodic table is arranged according to \_\_\_\_\_.

Please choose only one answer:

- atomic mass
- atomic number
- number of neutrons
- number of electrons
- isotope number

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

Question: [The periodic table is arranged according Madison Christian Chemistry](#)

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4.1.13. The isotope cesium-133 has \_\_\_ protons, \_\_\_ neutrons and \_\_\_ electr...

Author: Madison Christian

The isotope cesium-133 has \_\_\_ protons, \_\_\_ neutrons and \_\_\_ electrons.

Please choose only one answer:

- 29 protons, 104 neutrons, 104 electrons
- 55 protons, 133 neutrons, 55 electrons
- 78 protons, 78, neutrons, 49 electrons
- 133 protons, 78 neutrons, 133 electrons
- 55 protons, 78 neutrons, 55 electrons

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

Question: [The isotope cesium-133 has protons neutrons Madison Chemistry Final](#)

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#### 4.1.14. You prepare 1000.mL of lemonade and transfer it to a 1.00 quart pit...

Author: Madison Christian

You prepare 1000.mL of lemonade and transfer it to a 1.00 quart pitcher for serving. Which of the following statements applies if  $1 \text{ L} = 1.06 \text{ qt}$ ?

Please choose only one answer:

- The pitcher will be filled to 100% capacity with no lemonade spilled
- The pitcher will be filled to about 95% capacity.
- The pitcher will be completely filled and a small amount of lemonade will overflow.
- The pitcher will be completely filled and most of the lemonade will overflow.
- The pitcher will be half filled.

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

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4.1.15. Of the following, the smallest and lightest subatomic particle is t...

Author: Madison Christian

Of the following, the smallest and lightest subatomic particle is the \_\_\_\_\_.

Please choose only one answer:

- proton
- neutron
- atom
- alpha particle
- electron

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

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#### 4.1.16. A substance occupies 65.2mL in a stoppered 250 mL Erlenmeyer flask ...

Author: Madison Christian

A substance occupies 65.2mL in a stoppered 250 mL Erlenmeyer flask at 25°C. Which statement below must be correct regarding the substance?

Please choose only one answer:

- The substance cannot be a solid because it would occupy less than 65.2mL
- The substance must be a liquid because it has a volume.
- The substance cannot be a gas because it does not occupy the full volume of the flask
- The substance must be a solid because it takes the shape of the container.
- The substance is not matter.

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

Question: [A substance occupies 65.2mL in a stoppered Madison Chemistry Final](#)

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4.1.17. Provide the correct name for the following compounds.

$K_2SO_4$

Author: Madison Christian

Provide the correct name for the following compounds.

$K_2SO_4$

Please choose only one answer:

- Potassium Sulfate
- Phosphorous trihydride

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

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4.1.18. Provide the correct name for the following compounds.

NiCO<sub>3</sub>

Author: Madison Christian

Provide the correct name for the following compounds.

NiCO<sub>3</sub>

Please choose only one answer:

- Sodium Nitrate
- Nickel(II) carbonate

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

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4.1.19. Provide the correct name for the following compounds.

CaCl<sub>2</sub>

Author: Madison Christian

Provide the correct name for the following compounds.

CaCl<sub>2</sub>

Please choose only one answer:

- Carbon tetrachloride
- Calcium Chloride

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

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4.1.20. Provide the correct name for the following compounds.

$\text{NaNO}_3$

Author: Madison Christian

Provide the correct name for the following compounds.

$\text{NaNO}_3$

Please choose only one answer:

- Sodium Nitrate
- Nickel(II) carbonate

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

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4.1.21. Provide the correct name for the following compounds.

$\text{CCl}_4$

Author: Madison Christian

Provide the correct name for the following compounds.

$\text{CCl}_4$

Please choose only one answer:

- Calcium Chloride
- Carbon tetrachloride

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

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4.1.22. Provide the correct name for the following compounds.

PH<sub>3</sub>

Author: Madison Christian

Provide the correct name for the following compounds.

PH<sub>3</sub>

Please choose only one answer:

- Phosphine
- Phosphorous trihydride
- Potassium Sulfate

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

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4.1.23. Provide the correct name for the following compounds.

S<sub>2</sub>F<sub>6</sub>

Author: Madison Christian

Provide the correct name for the following compounds.

S<sub>2</sub>F<sub>6</sub>

Please choose only one answer:

- Disulfur Hexafluoride
- Disulfur Dioxide
- Disulfur dinitride

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4.1.24. Provide the correct name for the following acids:

HNO<sub>3</sub>

Author: Madison Christian

Provide the correct name for the following acids:

HNO<sub>3</sub>

Please choose only one answer:

- Perchloric acid
- Nitric Acid

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

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4.1.25. Provide the correct name for the following acids:

HCl

Author: Madison Christian

Provide the correct name for the following acids:

HCl

Please choose only one answer:

- Hydrochloric acid
- Carbonic acid

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

Question: [Provide the correct name for the following Madison Chemistry Final](#)

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4.1.26. Provide the correct name for the following acids:

HClO<sub>4</sub>

Author: Madison Christian

Provide the correct name for the following acids:

HClO<sub>4</sub>

Please choose only one answer:

- Perchloric acid
- Hydrochloric acid

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

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4.1.27. Provide the correct name for the following acids:

HF

Author: Madison Christian

Provide the correct name for the following acids:

HF

Please choose only one answer:

- Carbonic acid
- Hydrofluoric acid

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4.1.28. Provide the correct name for the following acids:

H<sub>2</sub>CO<sub>3</sub>

Author: Madison Christian

Provide the correct name for the following acids:

H<sub>2</sub>CO<sub>3</sub>

Please choose only one answer:

- Carbonic acid
- Perchloric acid

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

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4.1.29. Identify each of the following as an element, compound, homogeneous...

Author: Madison Christian

Identify each of the following as an element, compound, homogeneous solution or heterogeneous mixture.

air in this room

Please choose only one answer:

- homogeneous solution
- heterogeneous solution

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

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4.1.30. Identify each of the following as an element, compound, homogeneous...

Author: Madison Christian

Identify each of the following as an element, compound, homogeneous solution or heterogeneous mixture.

copper wire

Please choose only one answer:

- compound
- element

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

Question: [Identify each of the following as an Madison Christian Chemistry](#)

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4.1.31. Identify each of the following as an element, compound, homogeneous...

Author: Madison Christian

Identify each of the following as an element, compound, homogeneous solution or heterogeneous mixture.

soft drink

Please choose only one answer:

- heterogenous solution
- homogenous solution

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

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4.1.32. Identify each of the following as an element, compound, homogeneous...

Author: Madison Christian

Identify each of the following as an element, compound, homogeneous solution or heterogeneous mixture.

wood

Please choose only one answer:

- compound
- element
- heterogeneous solution

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

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<http://www.quizover.com/flashcards/question-identify-each-of-the-following-as-an-madison-christia-0528941?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-identify-each-of-the-following-as-an-madison-christia-0528941?pdf=1505>

4.1.33. Identify each of the following as an element, compound, homogeneous...

Author: Madison Christian

Identify each of the following as an element, compound, homogeneous solution or heterogeneous mixture.

paint

Please choose only one answer:

- homogeneous solution
- heterogenous solution

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

Question: [Identify each of the following as an Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-identify-each-of-the-following-as-an-madison-christia-0568429?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-identify-each-of-the-following-as-an-madison-christia-0568429?pdf=1505>

#### 4.1.34. Name one scientist discussed in lecture this semester and accurately...

Author: Madison Christian

Name one scientist discussed in lecture this semester and accurately describe their experiment and/or contributions to the topics relating to chapters 1 and/or 2.

- Ernest Rutherford did an experiment with thin foils and gold where he used these materials as objects as target for  $\alpha$ - particles. The majority of the  $\alpha$ - particles hit the foil without any deflection or with a small angle of deflection. However, every once in a while an  $\alpha$  particle would go back in the direction it had come from. This was an unexpected finding when the majority of the  $\alpha$  particles went through the foil without much if any deflection.

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

Question: [Name one scientist discussed in lecture Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-name-one-scientist-discussed-in-lecture-madison-chris-0642176?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-name-one-scientist-discussed-in-lecture-madison-chris-0642176?pdf=1505>

4.1.35. A cube which measures 3.00 cm on each side has a mass of 24.3 grams...

Author: Madison Christian

A cube which measures 3.00 cm on each side has a mass of 24.3 grams. Will it sink or float in 500.0 mL water at 25°C which has a density of 1.00 g/mL. You will need to provide a brief explanation of your math and EXPLAIN your answer to the question 'Will it sink or float?'

- Volume of cube =? = how many cm?<sup>3</sup>= how many mL?  
Use Density Formula: Density= M/V= grams/mL = how many g/mL?  
Then Determine based on the answer if it will sink or float.  
\*Answer should come out to 0.9 g/mL which determines that it will float\*

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

Question: [A cube which measures 3.00 cm on each side Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-cube-which-measures-3-00-cm-on-each-side-madison-chemistry-?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-cube-which-measures-3-00-cm-on-each-side-madison-chemistry-?pdf=1505>



4.1.36. Calcium fluoride is used to fluoridate drinking water. Calculate t...

Author: Madison Christian

Calcium fluoride is used to fluoridate drinking water. Calculate the molar mass of calcium fluoride.

Please choose only one answer:

- 59.08 g/mol
- 99.16 g/mol
- 78.08 g/mol
- 50.00 g/mol
- None of the above

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

Question: [Calcium fluoride is used to fluoridate Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calcium-fluoride-is-used-to-fluoridate-madison-christian-chem?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-calcium-fluoride-is-used-to-fluoridate-madison-christian-chem?pdf=1505>

4.1.37. Calculate the percent, by mass, of nitrogen in calcium nitrate.

Author: Madison Christian

Calculate the percent, by mass, of nitrogen in calcium nitrate.

Please choose only one answer:

- 17.1% N
- 13.7% N
- 14.0% N
- 25.9% N
- 16.3% N

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

Question: [Calculate the percent by mass of nitrogen Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-percent-by-mass-of-nitrogen-madison-christian-c?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-percent-by-mass-of-nitrogen-madison-christian-c?pdf=1505>

4.1.38. Write the balanced equation for the reaction of barium chloride and...

Author: Madison Christian

Write the balanced equation for the reaction of barium chloride and sulfuric acid. You may write subscripts on the same line as symbols. (For example: KNO<sub>3</sub> is potassium nitrate.)

\_\_\_\_\_ + \_\_\_\_\_ --> \_\_\_\_\_ + \_\_\_\_\_

Please choose only one answer:

- BaCl<sub>2</sub> + H<sub>2</sub>SO<sub>4</sub> ----> BaSO<sub>4</sub> + 2 HCl
- BaCl<sub>4</sub> + H<sub>3</sub>SO<sub>2</sub> ----> BaSO<sub>2</sub> + 4 HCl

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

Question: [Write the balanced equation for the reaction Madison Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-write-the-balanced-equation-for-the-reaction-madison-chemistr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-write-the-balanced-equation-for-the-reaction-madison-chemistr?pdf=1505>

4.1.39. What is the coefficient of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) when the following...

Author: Madison Christian

What is the coefficient of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) when the following equation is balanced using the smallest set of whole numbers?



Please choose only one answer:

- 1
- 2
- 3
- 4
- 5

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

Question: [What is the coefficient of sulfuric acid Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-coefficient-of-sulfuric-acid-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-coefficient-of-sulfuric-acid-madison-christian-ch?pdf=1505>

4.1.40. Calculate the mass, in grams, of 0.0250 mol of P<sub>2</sub>O<sub>5</sub>.

Author: Madison Christian

Calculate the mass, in grams, of 0.0250 mol of P<sub>2</sub>O<sub>5</sub>.

Please choose only one answer:

- 35.5 g
- 142 g
- 0.0250 g
- $1.76 \times 10^{-4}$  g
- 3.55 g

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

Question: [Calculate the mass in grams of 0.0250 mol Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-mass-in-grams-of-0-0250-mol-madison-christian-c?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-mass-in-grams-of-0-0250-mol-madison-christian-c?pdf=1505>

4.1.41. A chemical is composed of 38.7% carbon, 9.70% hydrogen and 51.6% ox...

Author: Madison Christian

A chemical is composed of 38.7% carbon, 9.70% hydrogen and 51.6% oxygen by mass. The molar mass of the substance is 62.1g/mol. What is the molecular formula of the substance?

Please choose only one answer:

- CH<sub>3</sub>O
- C<sub>3</sub>H<sub>10</sub>O<sub>3</sub>
- CH<sub>2</sub>O
- C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>
- None of the above.

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

Question: [A chemical is composed of 38.7 carbon 9. Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-chemical-is-composed-of-38-7-carbon-9-madison-christian-che?pdf=1505>

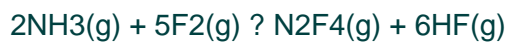
Interactive Question:

<http://www.quizover.com/question/question-a-chemical-is-composed-of-38-7-carbon-9-madison-christian-che?pdf=1505>

#### 4.1.42. Ammonia will react with fluorine to produce dinitrogen tetrafluorid...

Author: Madison Christian

Ammonia will react with fluorine to produce dinitrogen tetrafluoride and hydrogen fluoride (used in production of aluminum, in uranium processing, and in frosting of light bulbs).



How many moles of  $\text{NH}_3$  are needed to react completely with 13.6 mol of  $\text{F}_2$ ?

Please choose only one answer:

- 68.0 mol
- 27.2 mol
- 34.0 mol
- 5.44 mol

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

Question: [Ammonia will react with fluorine to produce Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ammonia-will-react-with-fluorine-to-produce-madison-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-ammonia-will-react-with-fluorine-to-produce-madison-chemistry?pdf=1505>

4.1.43. According to the balanced chemical equation below, Calculate the ma...

Author: Madison Christian

According to the balanced chemical equation below, Calculate the mass of silver chloride produced when 0.01660 moles of silver nitrate reacts with excess copper(II) chloride.



Please choose only one answer:

- 2.3790
- 2.5093
- 2.6710
- 2.3487

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

Question: [According to the balanced chemical equation Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-according-to-the-balanced-chemical-equation-madison-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-according-to-the-balanced-chemical-equation-madison-chemistry?pdf=1505>



#### 4.1.44. Aluminum readily combines with oxygen in the atmosphere to form alu...

Author: Madison Christian

Aluminum readily combines with oxygen in the atmosphere to form aluminum oxide ( $\text{Al}_2\text{O}_3$ ). Based on the balanced chemical equation for this reaction,

(a) Determine the limiting reactant when 0.214 moles of aluminum reacts with 0.187 moles of oxygen and

(b) Calculate the moles of aluminum oxide produced.

Please choose only one answer:

- Aluminum is the limiting reactant and 0.214 mol  $\text{Al}_2\text{O}_3$  is produced
- Aluminum is the limiting reactant and 0.107 mol  $\text{Al}_2\text{O}_3$  is produced
- Oxygen is the limiting reactant and 0.374 mol  $\text{Al}_2\text{O}_3$  is produced
- Oxygen is the limiting reactant and 0.125 mol  $\text{Al}_2\text{O}_3$  is produced

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

Question: [Aluminum readily combines with oxygen in Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-aluminum-readily-combines-with-oxygen-in-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-aluminum-readily-combines-with-oxygen-in-madison-christian-ch?pdf=1505>

4.1.45. In a titration experiment, exactly 15.00mL of hydrochloric acid is ...

Author: Madison Christian

In a titration experiment, exactly 15.00mL of hydrochloric acid is neutralized with 34.6mL of 0.487M sodium hydroxide. Calculate the molarity of the HCl.

Please choose only one answer:

- 1.12
- 1.53
- 1.40
- 1.17

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

Question: [In a titration experiment exactly 15.00mL Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-a-titration-experiment-exactly-15-00ml-madison-christian-c?pdf=1505>

Interactive Question:

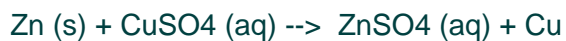
<http://www.quizover.com/question/question-in-a-titration-experiment-exactly-15-00ml-madison-christian-c?pdf=1505>

4.1.46. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



: The oxidation number of zinc on the reactant side of the equation is

Please choose only one answer:

- 0
- 1
- 2

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-christian-c?pdf=1505>

Interactive Question:

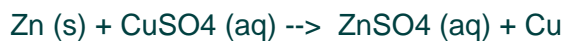
<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-christian-c?pdf=1505>

4.1.47. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



The oxidation number of zinc on the product side of the equation is

Please choose only one answer:

- 0
- +1
- +2
- +3

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-chr-1872165?pdf=1505>

Interactive Question:

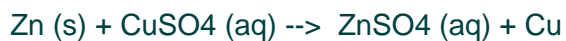
<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-chr-1872165?pdf=1505>

4.1.48. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



:Zinc is (oxidized or reduced)

Please choose only one answer:

- oxidized
- reduced

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-chr-2010269?pdf=1505>

Interactive Question:

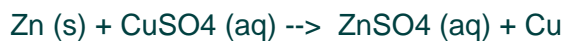
<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-chr-2010269?pdf=1505>

4.1.49. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



The oxidation number of copper on the reactant side of the equation is

Please choose only one answer:

- +1
- +2
- +3

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-chr-2045361?pdf=1505>

Interactive Question:

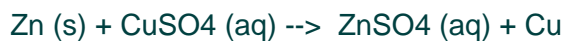
<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-chr-2045361?pdf=1505>

4.1.50. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



The oxidation number of copper on the product side of the equation is

Please choose only one answer:

- +4
- 0
- +1
- +2

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-chr-2096187?pdf=1505>

Interactive Question:

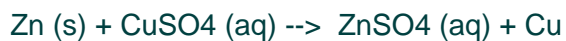
<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-chr-2096187?pdf=1505>

4.1.51. For the following balanced redox equation



Author: Madison Christian

For the following balanced redox equation



Copper is (oxidized or reduced)

Please choose only one answer:

- oxidized
- reduced

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

Question: [For the following balanced redox equation Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-the-following-balanced-redox-equation-madison-chr-2132584?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-for-the-following-balanced-redox-equation-madison-chr-2132584?pdf=1505>



4.1.52. Calculate the molarity of a solution prepared by dissolving 23.4g s...

Author: Madison Christian

Calculate the molarity of a solution prepared by dissolving 23.4g sodium hydroxide in enough water to form a 500.0mL solution.

Please choose only one answer:

- 1.17
- 1.12
- 1.16
- 1.13

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

Question: [Calculate the molarity of a solution Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-molarity-of-a-solution-madison-christian-chemis?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-molarity-of-a-solution-madison-christian-chemis?pdf=1505>

4.1.53. Which of the following compounds is a strong electrolyte?

Author: Madison Christian

Which of the following compounds is a strong electrolyte?

Please choose only one answer:

- water
- CH<sub>3</sub>COOH (acetic acid)
- N<sub>2</sub>
- KOH

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

Question: [Which of the following compounds is a Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-compounds-is-a-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-compounds-is-a-madison-christian-chemi?pdf=1505>

4.1.54. An exothermic reaction causes the surrounds to:

Author: Madison Christian

An exothermic reaction causes the surrounds to:

Please choose only one answer:

- become acidic
- expand
- decrease its temperature
- release CO<sub>2</sub>
- warm up

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

Question: [An exothermic reaction causes the surrounds Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-an-exothermic-reaction-causes-the-surrounds-madison-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-an-exothermic-reaction-causes-the-surrounds-madison-chemistry?pdf=1505>

#### 4.1.55. Which of the following is NOT a state function?

Author: Madison Christian

Which of the following is NOT a state function?

Please choose only one answer:

- internal energy
- volume
- work
- enthalpy
- pressure

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

Question: [Which of the following is NOT a state Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-not-a-state-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-not-a-state-madison-christian-chemi?pdf=1505>

4.1.56. Calculate the amount of heat required to raise the temperature of ...

Author: Madison Christian

Calculate the amount of heat required to raise the temperature of 1,500g of water from 25°C to 52°C. The specific heat of water is 4.184 J/g°C.  $q=ms\Delta T$

Please choose only one answer:

- 169 kJ
- 1,500 kJ
- 6.27 kJ
- 40.5 kJ
- 40.5 J

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

Question: [Calculate the amount of heat required to Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-amount-of-heat-required-to-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-amount-of-heat-required-to-madison-christian-ch?pdf=1505>

4.1.57. The combustion of pentane produces heat according to the equation:

...

Author: Madison Christian

The combustion of pentane produces heat according to the equation:



How many grams of carbon dioxide are produced per  $2.50 \times 10^3$  kJ of heat released?

Please choose only one answer:

- 0.0809 g
- 3.56 g
- 31.3 g
- 157 g
- 309 g

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

Question: [The combustion of pentane produces heat Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-combustion-of-pentane-produces-heat-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-combustion-of-pentane-produces-heat-madison-christian-che?pdf=1505>

4.1.58. Ethanol (C<sub>2</sub>H<sub>5</sub>OH) is being promoted as a clean fuel and is used as a...

Author: Madison Christian

Ethanol (C<sub>2</sub>H<sub>5</sub>OH) is being promoted as a clean fuel and is used as an additive in many gasoline mixtures. Calculate the  $\Delta H_{\text{rxn}}$  for combustion of ethanol using the standard enthalpies of formation values given below. You will need to write the balanced chemical equation for ethanol combustion.

$$\Delta H_f \text{ C}_2\text{H}_5\text{OH (l)} = - 277.7 \text{ kJ/mol}$$

$$\Delta H_f \text{ CO}_2 \text{ (g)} = - 393.5 \text{ kJ/mol}$$

$$\Delta H_f \text{ H}_2\text{O (g)} = - 241.8 \text{ kJ/mol}$$

Please choose only one answer:

- -1234.7 kJ
- -751.1 kJ
- -357.6 kJ
- 357.6 kJ
- 1234.7 kJ

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

Question: [Ethanol C<sub>2</sub>H<sub>5</sub>OH is being promoted as a Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ethanol-c2h5oh-is-being-promoted-as-a-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-ethanol-c2h5oh-is-being-promoted-as-a-madison-christian-chemi?pdf=1505>

4.1.59. The size of an atomic orbital is associated with \_\_\_\_\_.

Author: Madison Christian

The size of an atomic orbital is associated with \_\_\_\_\_.

Please choose only one answer:

- the principal quantum number.
- the angular momentum quantum number.
- the magnetic quantum number.
- the spin quantum number.
- none of the above.

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

Question: [The size of an atomic orbital is associated Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-size-of-an-atomic-orbital-is-associated-madison-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-size-of-an-atomic-orbital-is-associated-madison-chemistry?pdf=1505>



4.1.60. Which of the following is a correct set of quantum numbers for an e...

Author: Madison Christian

Which of the following is a correct set of quantum numbers for an electron in a 3d orbital?

Please choose only one answer:

- $n=3, l=0, m_l=-1$
- $n=3, l=1, m_l=+3$
- $n=3, l=1, m_l=3$
- $n=3, l=2, m_l=-2$

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

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

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-a-correct-set-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-a-correct-set-madison-christian-che?pdf=1505>

4.1.61. What is the maximum number of electrons in an atom that can have th...

Author: Madison Christian

What is the maximum number of electrons in an atom that can have the following set of quantum numbers?

$n = 4, l = 3, m_l = -2, m_s = +1/2$

Please choose only one answer:

- 0
- 1
- 2
- 6
- 10

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

Question: [What is the maximum number of electrons Madison Christian Chemistry](http://www.quizover.com/question/question-what-is-the-maximum-number-of-electrons-madison-christian-che?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-maximum-number-of-electrons-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-maximum-number-of-electrons-madison-christian-che?pdf=1505>

#### 4.1.62. The ground state electron configuration of calcium is:

Author: Madison Christian

The ground state electron configuration of calcium is:

Please choose only one answer:

- [Ne] 3s<sup>2</sup>
- [Ne]3s<sup>2</sup> 3p<sup>6</sup>
- [Ar]4s<sup>1</sup> 3d<sup>1</sup>
- [Ar]4s<sup>2</sup>
- [Ar]3d<sup>2</sup>

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

Question: [The ground state electron configuration Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-ground-state-electron-configuration-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-ground-state-electron-configuration-madison-christian-che?pdf=1505>

4.1.63. What element is represented by the electron configuration [Ar]4s<sup>2</sup> ...

Author: Madison Christian

What element is represented by the electron configuration [Ar]4s<sup>2</sup> 3d<sup>10</sup> 4p<sup>3</sup>?

Please choose only one answer:

- Argon
- Astatine
- Arsenic
- Silver
- Antimony

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

Question: [What element is represented by the electron Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-element-is-represented-by-the-electron-madison-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-element-is-represented-by-the-electron-madison-chemistry?pdf=1505>

4.1.64. Consider the element with the electron configuration  $[\text{Kr}]5s^2 4d^{10}$ ...

Author: Madison Christian

Consider the element with the electron configuration  $[\text{Kr}]5s^2 4d^{10} 5p^5$ . This element is \_\_\_\_\_.

Please choose only one answer:

- a halogen.
- a transition metal.
- an alkali metal.
- an actinide element.
- a noble gas.

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

Question: [Consider the element with the electron Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-consider-the-element-with-the-electron-madison-christian-chem?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-consider-the-element-with-the-electron-madison-christian-chem?pdf=1505>

#### 4.1.65. How many valence electrons does a carbon atom have?

Author: Madison Christian

How many valence electrons does a carbon atom have?

Please choose only one answer:

- 1
- 2
- 4
- 6
- 12

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

Question: [How many valence electrons does a carbon Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-how-many-valence-electrons-does-a-carbon-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-how-many-valence-electrons-does-a-carbon-madison-christian-ch?pdf=1505>

#### 4.1.66. What is involved in the formation of chemical bonds?

Author: Madison Christian

What is involved in the formation of chemical bonds?

Please choose only one answer:

- valence electrons
- neutrons
- protons
- all subatomic particles
- moles

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

Question: [What is involved in the formation of Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-involved-in-the-formation-of-madison-christian-chemis?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-involved-in-the-formation-of-madison-christian-chemis?pdf=1505>

4.1.67. Which of the following elements has the largest first ionization en...

Author: Madison Christian

Which of the following elements has the largest first ionization energy?

Please choose only one answer:

- lithium
- boron
- oxygen
- fluorine
- sodium

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

Question: [Which of the following elements has the Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-elements-has-the-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-elements-has-the-madison-christian-che?pdf=1505>



4.1.68. Elements with the highest first ionization energies are found in th...

Author: Madison Christian

Elements with the highest first ionization energies are found in the \_\_\_\_\_ region of the periodic table.

Please choose only one answer:

- lower left
- lower right
- upper left
- upper right

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

Question: [Elements with the highest first ionization Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-elements-with-the-highest-first-ionization-madison-chemistry-?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-elements-with-the-highest-first-ionization-madison-chemistry-?pdf=1505>

4.1.69. Which of these pairs consists of an isoelectronic species?

Author: Madison Christian

Which of these pairs consists of an isoelectronic species?

Please choose only one answer:

- Manganese(II) and Argon
- Zinc ion and Copper(II)
- Sodium ion and Potassium ion
- Chloride ion and Sulfur
- Potassium ion and Chloride ion

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

Question: [Which of these pairs consists of an Madison Christian Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-these-pairs-consists-of-an-madison-christian-chemist?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-these-pairs-consists-of-an-madison-christian-chemist?pdf=1505>

#### 4.1.70. What is the correct order of decreasing size of the following ions?...

Author: Madison Christian

What is the correct order of decreasing size of the following ions? (largest to smallest)

Please choose only one answer:

- $P^{3-} > Cl^- > K^+ > Ca^{2+}$
- $Ca^{2+} > K^+ > Cl^- > P^{3-}$
- $K^+ > Cl^- > Ca^{2+} > P^{3-}$
- $K^+ > Cl^- > P^{3-} > Ca^{2+}$
- none of the above

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

Question: [What is the correct order of decreasing Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-correct-order-of-decreasing-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-correct-order-of-decreasing-madison-christian-che?pdf=1505>

4.1.71. The elements on the periodic table are arranged according to \_\_\_\_\_...

Author: Madison Christian

The elements on the periodic table are arranged according to \_\_\_\_\_.

Please choose only one answer:

- atomic number.
- atomic mass .
- reactivity.
- number of electrons.
- binding energy.

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

Question: [The elements on the periodic table are Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-elements-on-the-periodic-table-are-madison-christian-chem?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-elements-on-the-periodic-table-are-madison-christian-chem?pdf=1505>

#### 4.1.72. Which of these atoms has the smallest atomic radius?

Author: Madison Christian

Which of these atoms has the smallest atomic radius?

Please choose only one answer:

- aluminum
- phosphorus
- arsenic
- tellurium
- sodium

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

Question: [Which of these atoms has the smallest Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-these-atoms-has-the-smallest-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-these-atoms-has-the-smallest-madison-christian-chemi?pdf=1505>

#### 4.1.73. Which of these elements has the largest atomic radius?

Author: Madison Christian

Which of these elements has the largest atomic radius?

Please choose only one answer:

- chloride ion
- potassium ion
- sulfide ion
- sodium ion
- oxide ion

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

Question: [Which of these elements has the largest Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-these-elements-has-the-largest-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-these-elements-has-the-largest-madison-christian-che?pdf=1505>

#### 4.1.74. Which of these elements has the greatest electron affinity?

Author: Madison Christian

Which of these elements has the greatest electron affinity?

Please choose only one answer:

- K
- Br
- As
- Ar
- I

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

Question: [Which of these elements has the greatest Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-these-elements-has-the-greatest-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-these-elements-has-the-greatest-madison-christian-ch?pdf=1505>

4.1.75. The Lewis dot symbol for sulfur has \_\_\_\_ unpaired electrons.

Author: Madison Christian

The Lewis dot symbol for sulfur has \_\_\_\_ unpaired electrons.

Please choose only one answer:

- 6
- 2
- 4
- 16

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

Question: [The Lewis dot symbol for sulfur has unpaired Madison Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-lewis-dot-symbol-for-sulfur-has-unpaired-madison-chemistr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-lewis-dot-symbol-for-sulfur-has-unpaired-madison-chemistr?pdf=1505>



4.1.76. The Lewis dot symbol for the bromide ion has \_\_\_\_ unpaired electrons.

Author: Madison Christian

The Lewis dot symbol for the bromide ion has \_\_\_\_ unpaired electrons.

Please choose only one answer:

- 8
- 35
- 7
- 0
- 1

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

Question: [The Lewis dot symbol for the bromide ion Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-lewis-dot-symbol-for-the-bromide-ion-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-lewis-dot-symbol-for-the-bromide-ion-madison-christian-ch?pdf=1505>

4.1.77. Which of the following is likely to be an ionic compound?

Author: Madison Christian

Which of the following is likely to be an ionic compound?

Please choose only one answer:

- BF<sub>3</sub>
- NO<sub>2</sub>
- PbCl<sub>2</sub>
- CO

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

Question: [Which of the following is likely to be an Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-is-likely-to-be-an-madison-christian-c?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-is-likely-to-be-an-madison-christian-c?pdf=1505>

4.1.78. Bonds between which of the following atoms would most likely be cov...

Author: Madison Christian

Bonds between which of the following atoms would most likely be covalent bonds?

Please choose only one answer:

- sodium and chlorine
- nitrogen and oxygen
- sulfur and cadmium
- iron and oxygen

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

Question: [Bonds between which of the following atoms Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-bonds-between-which-of-the-following-atoms-madison-chemistry-?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-bonds-between-which-of-the-following-atoms-madison-chemistry-?pdf=1505>

4.1.79. Which of the following bonds would be expected to be the MOST polar?

Author: Madison Christian

Which of the following bonds would be expected to be the MOST polar?

Please choose only one answer:

- B-F
- O-F
- Na-Cl
- S-F

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

Question: [Which of the following bonds would be Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-bonds-would-be-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-bonds-would-be-madison-christian-chemi?pdf=1505>

#### 4.1.80. Based on the Lewis structure for NCl<sub>3</sub>

:There are \_\_\_\_\_ lone pairs ...

Author: Madison Christian

Based on the Lewis structure for NCl<sub>3</sub>

:There are \_\_\_\_\_ lone pairs of electrons are in the structure.

Please choose only one answer:

- 1
- 6
- 9
- 10

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

Question: [Based on the Lewis structure for NCl<sub>3</sub> Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-ncl3-madison-christian-chemi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-ncl3-madison-christian-chemi?pdf=1505>

4.1.81. Based on the Lewis structure for  $\text{NCl}_3$

: There are \_\_\_\_ sigma bonds...

Author: Madison Christian

Based on the Lewis structure for  $\text{NCl}_3$

: There are \_\_\_\_ sigma bonds in the structure.

Please choose only one answer:

- 2
- 3
- 5
- 1

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

Question: [Based on the Lewis structure for  \$\text{NCl}\_3\$  : Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5795384?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5795384?pdf=1505>

4.1.82. Based on the Lewis structure for NCl<sub>3</sub>

:There are \_\_\_\_\_ pi bonds in...

Author: Madison Christian

Based on the Lewis structure for NCl<sub>3</sub>

:There are \_\_\_\_\_ pi bonds in the structure.

Please choose only one answer:

- 1
- 3
- 2
- 0

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

Question: [Based on the Lewis structure for NCl<sub>3</sub> Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5837024?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5837024?pdf=1505>

#### 4.1.83. Based on the Lewis structure for $\text{NCl}_3$

: The hybridization of the c...

Author: Madison Christian

Based on the Lewis structure for  $\text{NCl}_3$

: The hybridization of the central atom is

Please choose only one answer:

- $sp$
- $sp^2$
- $sp^3$

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

Question: [Based on the Lewis structure for  \$\text{NCl}\_3\$  : Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5968806?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-ncl3-madison-christi-5968806?pdf=1505>



#### 4.1.84. Based on the Lewis structure for NCl<sub>3</sub>

: The molecular geometry/sha...

Author: Madison Christian

Based on the Lewis structure for NCl<sub>3</sub>

: The molecular geometry/shape around the central atom is

Please choose only one answer:

- linear
- bent
- trigonal pyramidal
- trigonal planar
- tetrahedral

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

Question: [Based on the Lewis structure for NCl<sub>3</sub> : Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-ncl3-madison-christi-6075027?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-ncl3-madison-christi-6075027?pdf=1505>

4.1.85. Answer the following questions based on the Lewis structure for PH<sub>3</sub>...

Author: Madison Christian

Answer the following questions based on the Lewis structure for PH<sub>3</sub>

:The central atom \_\_\_\_\_ satisfy the octet rule

Please choose only one answer:

- does
- does not

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

Question: [Answer the following questions based on Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/answer-the-following-questions-based-on-madison-christian-chemistry?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/answer-the-following-questions-based-on-madison-christian-chemistry?pdf=1505>

#### 4.1.86. Answer the following questions based on the Lewis structure for PH<sub>3</sub>...

Author: Madison Christian

Answer the following questions based on the Lewis structure for PH<sub>3</sub>

: The hybridization of the P is

Please choose only one answer:

- sp
- sp<sup>2</sup>
- sp<sup>3</sup>

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

Question: [Answer the following questions based on Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/answer-the-following-questions-based-on-madison-christian-chem-6162729?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/answer-the-following-questions-based-on-madison-christian-chem-6162729?pdf=1505>

4.1.87. Answer the following questions based on the Lewis structure for PH<sub>3</sub>...

Author: Madison Christian

Answer the following questions based on the Lewis structure for PH<sub>3</sub>

The formal charge for each H is

Please choose only one answer:

- 0
- +1
- +2
- +3

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

Question: [Answer the following questions based on Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/answer-the-following-questions-based-on-madison-christian-chem-6205579?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/answer-the-following-questions-based-on-madison-christian-chem-6205579?pdf=1505>

4.1.88. Answer the following questions based on the Lewis structure for PH<sub>3</sub>...

Author: Madison Christian

Answer the following questions based on the Lewis structure for PH<sub>3</sub>

The formal charge for P is

Please choose only one answer:

- +8
- +5
- +3
- -1
- 0

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

Question: [Answer the following questions based on Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/answer-the-following-questions-based-on-madison-christian-chem-6267757?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/answer-the-following-questions-based-on-madison-christian-chem-6267757?pdf=1505>

4.1.89. Based on the Lewis structure for SO<sub>3</sub>

: The molecular geometry/shap...

Author: Madison Christian

Based on the Lewis structure for SO<sub>3</sub>

: The molecular geometry/shape of the central atom is

Please choose only one answer:

- trigonal planar
- trigonal pyramidal
- tetrahedral

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

Question: [Based on the Lewis structure for SO<sub>3</sub> : Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-so3-madison-christian-chemis?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-so3-madison-christian-chemis?pdf=1505>

#### 4.1.90. Based on the Lewis structure for SO<sub>3</sub>

:The central atom is \_\_\_\_\_ ...

Author: Madison Christian

Based on the Lewis structure for SO<sub>3</sub>

:The central atom is \_\_\_\_\_ hybridized.

Please choose only one answer:

- sp
- sp<sup>2</sup>
- sp<sup>3</sup>

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

Question: [Based on the Lewis structure for SO<sub>3</sub> :The Madison Christian Chemistry](http://www.quizover.com/question/question-based-on-the-lewis-structure-for-so3-the-madison-christian-ch?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-so3-the-madison-christian-ch?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-so3-the-madison-christian-ch?pdf=1505>

#### 4.1.91. Based on the Lewis structure for SO<sub>3</sub>

:The formal charge of the sul...

Author: Madison Christian

Based on the Lewis structure for SO<sub>3</sub>

:The formal charge of the sulfur is

Please choose only one answer:

- 0
- -1
- +2
- +1
- -2

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

Question: [Based on the Lewis structure for SO<sub>3</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-so3-the-madison-chri-6464255?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-so3-the-madison-chri-6464255?pdf=1505>



#### 4.1.92. Based on the Lewis structure for SO<sub>3</sub>

:The molecule is

Author: Madison Christian

Based on the Lewis structure for SO<sub>3</sub>

:The molecule is

Please choose only one answer:

- polar
- non-polar

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

Question: [Based on the Lewis structure for SO<sub>3</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-so3-the-madison-chri-6488028?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-so3-the-madison-chri-6488028?pdf=1505>

4.1.93. Based on the Lewis structure for water,  
:The shape of the molecule is

Author: Madison Christian

Based on the Lewis structure for water,

:The shape of the molecule is

Please choose only one answer:

- linear
- bent
- tetrahedral

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

Question: [Based on the Lewis structure for water Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-water-madison-christian-chem?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christian-chem?pdf=1505>

4.1.94. Based on the Lewis structure for water,  
:The molecule is

Author: Madison Christian

Based on the Lewis structure for water,

:The molecule is

Please choose only one answer:

- non-polar
- polar

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

Question: [Based on the Lewis structure for water Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-water-madison-christ-6560783?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6560783?pdf=1505>

4.1.95. Based on the Lewis structure for water,  
:The hybridization of the ...

Author: Madison Christian

Based on the Lewis structure for water,

:The hybridization of the oxygen atom is

Please choose only one answer:

- sp
- sp<sup>2</sup>
- sp<sup>3</sup>

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

Question: [Based on the Lewis structure for water Madison Christian Chemistry](http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6598506?pdf=1505)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-water-madison-christ-6598506?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6598506?pdf=1505>

4.1.96. Based on the Lewis structure for water,

:The molecule contains \_\_\_\_...

Author: Madison Christian

Based on the Lewis structure for water,

:The molecule contains \_\_\_\_\_ sigma bonds

Please choose only one answer:

- 0
- 1
- 2

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

Question: [Based on the Lewis structure for water Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-water-madison-christ-6636497?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6636497?pdf=1505>

4.1.97. Based on the Lewis structure for water,

:The molecule contains \_\_\_\_...

Author: Madison Christian

Based on the Lewis structure for water,

:The molecule contains \_\_\_\_\_ pi bonds.

Please choose only one answer:

- 0
- 1
- 2

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

Question: [Based on the Lewis structure for water Madison Christian Chemistry](http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6674199?pdf=1505)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-water-madison-christ-6674199?pdf=1505>

#### 4.1.98. Based on the Lewis structure for N<sub>2</sub>

:The molecule is

Author: Madison Christian

Based on the Lewis structure for N<sub>2</sub>

:The molecule is

Please choose only one answer:

- non-polar
- polar

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

Question: [Based on the Lewis structure for N<sub>2</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-n2-the-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-n2-the-madison-christian-che?pdf=1505>

4.1.99. Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_\_ s...

Author: Madison Christian

Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_\_ sigma bonds

Please choose only one answer:

- 0
- 1
- 2
- 3

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

Question: [Based on the Lewis structure for N<sub>2</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6749007?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6749007?pdf=1505>



4.1.100. Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_ pi...

Author: Madison Christian

Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_ pi bonds

Please choose only one answer:

- 0
- 1
- 2
- 3

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

Question: [Based on the Lewis structure for N<sub>2</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6790937?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6790937?pdf=1505>

4.1.101. Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_\_ L...

Author: Madison Christian

Based on the Lewis structure for N<sub>2</sub>

:The molecule contains \_\_\_\_\_ Lone pairs of electrons.

Please choose only one answer:

- 0
- 1
- 2
- 3
- 4

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

Question: [Based on the Lewis structure for N<sub>2</sub> :The Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6838190?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-n2-the-madison-chris-6838190?pdf=1505>

4.1.102. Based on the Lewis structure for N<sub>2</sub>

:Bothe nitrogens are \_\_\_\_\_ hy...

Author: Madison Christian

Based on the Lewis structure for N<sub>2</sub>

:Bothe nitrogens are \_\_\_\_\_ hybridized

Please choose only one answer:

- sp
- sp<sup>2</sup>
- sp<sup>3</sup>

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

Question: [Based on the Lewis structure for N<sub>2</sub> :Bothe Madison Chemistry Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-based-on-the-lewis-structure-for-n2-bothe-madison-chemistry-f?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-based-on-the-lewis-structure-for-n2-bothe-madison-chemistry-f?pdf=1505>

#### 4.1.103. What is the approximate bond angle for CCl<sub>4</sub>?

Author: Madison Christian

What is the approximate bond angle for CCl<sub>4</sub>?

Please choose only one answer:

- 90 degrees
- 109.5 degrees
- 107 degrees
- none of the above

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

Question: [What is the approximate bond angle for Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-approximate-bond-angle-for-madison-christian-chem?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-approximate-bond-angle-for-madison-christian-chem?pdf=1505>

4.1.104. A sample of a gas occupies  $1.40 \times 10^3$  mL at  $25^\circ\text{C}$  and 760 mmHg. Wha...

Author: Madison Christian

A sample of a gas occupies  $1.40 \times 10^3$  mL at  $25^\circ\text{C}$  and 760 mmHg. What volume will it occupy at the same temperature and 380 mmHg?  $PV=nRT$

The ideal gas constant is  $0.0821 \text{ L}\cdot\text{atm}/\text{mol}\cdot\text{K}$

1 atm = 760mmHg

Please choose only one answer:

- 2800 mL
- 2100 mL
- 1400 mL
- 1050 mL
- 700 mL

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

Question: [A sample of a gas occupies 1.40 10 3 mL Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-sample-of-a-gas-occupies-1-40-10-3-ml-madison-christian-che?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-sample-of-a-gas-occupies-1-40-10-3-ml-madison-christian-che?pdf=1505>

4.1.105. A sample of a gas occupies  $1.40 \times 10^3$  mL at  $25^\circ\text{C}$  and 760 mmHg. Wha...

Author: Madison Christian

A sample of a gas occupies  $1.40 \times 10^3$  mL at  $25^\circ\text{C}$  and 760 mmHg. What volume will it occupy at the same temperature and 380 mmHg?  $PV=nRT$

The ideal gas constant is  $0.0821 \text{ L}\cdot\text{atm}/\text{mol}\cdot\text{K}$

1 atm = 760mmHg

Please choose only one answer:

- 2800 mL
- 2100 mL
- 1400 mL
- 1050 mL
- 700 mL

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

Question: [A sample of a gas occupies 1.40 10 3 mL Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-sample-of-a-gas-occupies-1-40-10-3-ml-madison-chris-6972829?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-sample-of-a-gas-occupies-1-40-10-3-ml-madison-chris-6972829?pdf=1505>

4.1.106. A sample of gas occupies 24.5 L at a pressure of 1.57 atm, what is ...

Author: Madison Christian

A sample of gas occupies 24.5 L at a pressure of 1.57 atm, what is the pressure if the volume is increased to 48.3 L?

$PV=nRT$

The ideal gas constant is  $0.0821 \text{ L}\cdot\text{atm}/\text{mol}\cdot\text{K}$

Please choose only one answer:

- 0.796 atm
- 1.26 atm
- 3.1 atm
- $5.3 \times 10^{-4}$  atm
- 1,858 atm

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

Question: [A sample of gas occupies 24.5 L at a Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-sample-of-gas-occupies-24-5-l-at-a-madison-christian-chemis?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-sample-of-gas-occupies-24-5-l-at-a-madison-christian-chemis?pdf=1505>

4.1.107. What is the volume of NH<sub>3</sub> produced in the following reaction when 3...

Author: Madison Christian

What is the volume of NH<sub>3</sub> produced in the following reaction when 3.0 L of N<sub>2</sub> reacts with 4.0 L of H<sub>2</sub>?



Please choose only one answer:

- 1.55 L
- 2.66 L
- 0.66 L
- 2.0 L
- 0.5 L

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

Question: [What is the volume of NH<sub>3</sub> produced in the Madison Christian Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-volume-of-nh3-produced-in-the-madison-christian-c?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-volume-of-nh3-produced-in-the-madison-christian-c?pdf=1505>