

# Natural Sciences

# Chemistry

# Ch 1 & 2

# Test 1

Author: Madison Christian

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## 4. Chapter: Chemistry Ch 1 & 2 Test 1

### 1. Chemistry Ch 1 & 2 Test 1 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](#)

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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](http://www.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](#)

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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):

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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:

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):

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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](#)

Flashcards:

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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 Quest](#)

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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:

Question: [You prepare 1000.mL of lemonade and transfer Madison Chemistry Quest](#)

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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:

Question: [Of the following the smallest and lightest Madison Chemistry](#)

Flashcards:

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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](#)

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4.1.17. Provide the correct name for the following compounds.

Author: Madison Christian

Provide the correct name for the following compounds.

Please choose all the answers that apply:

- $K_2SO_4$ : (Potassium Sulfate)
- $NiCO_3$ : (Nickel(II) carbonate)
- $CaCl_2$ : (Calcium Chloride)
- $NaNO_3$ : (Sodium Nitrate)

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

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

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#### 4.1.18. Provide the correct name for the following acids:

Author: Madison Christian

Provide the correct name for the following acids:

Please choose all the answers that apply:

- $\text{HNO}_3$ : (Nitric Acid )
- $\text{HCl}$  (Hydrochloric acid)
- $\text{HClO}_4$ : (Perchloric acid)
- $\text{HF}$ : (Hydrofluoric acid)
- $\text{H}_2\text{CO}_3$  : (Carbonic acid)

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

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

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#### 4.1.19. 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.

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](#)

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