

TEST BANK FOR

Chemistry An Introduction to General, Organic, and Biological Chemistry, 2025
14th edition Karen C. Timberlake

Chapter 1-18

Chapter 1 Chemistry in Our Lives

1.1 Multiple-Choice Questions

1) Water, H_2O , is an example of a(n) _____.

- A) chemical
- B) solid
- C) wave
- D) electric charge
- E) element

Answer: A

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

2) In this list, which substance can be classified as a chemical?

- A) Salt
- B) Sleep
- C) Cold
- D) Heat
- E) Temperature

Answer: A

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

3) One example of a chemical used in toothpaste is _____.

- A) chlorine
- B) sulfur
- C) carbon dioxide
- D) calcium carbonate
- E) sugar

Answer: D

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

4) Which of the following is not a chemical?

- A) Salt
- B) Water
- C) Light
- D) Carbon dioxide
- E) Sugar

Answer: C

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

5) Sodium fluorophosphate is a chemical used in toothpaste to _____.

- A) make the paste white
- B) disinfect the toothbrush
- C) keep the paste from spoiling
- D) remove plaque
- E) strengthen tooth enamel

Answer: E

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

6) When a part of the body is injured, substances called _____ are released.

- A) aspirins
- B) pain relievers
- C) nitrogen oxides
- D) chlorofluorocarbons
- E) prostaglandins

Answer: E

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

7) Titanium dioxide is a chemical used in toothpaste to _____.

- A) make the paste white
- B) disinfect the toothbrush
- C) keep the paste from spoiling
- D) remove plaque
- E) strengthen tooth enamel

Answer: A

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

8) Which of the following is a chemical?

- A) Sugar
- B) Heat
- C) Light
- D) Noise
- E) A wave

Answer: A

Section: 1.1

Learning Obj: 1.1

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

9) You notice that there is more traffic between 8 and 9 in the morning. This would be a(n) _____.

- A) observation
- B) hypothesis
- C) experiment
- D) conclusion
- E) all the above

Answer: A

Section: 1.2

Learning Obj: 1.2

Global Outcomes: G1 Demonstrate an understanding of the principles of scientific inquiry.

10) There is more traffic between 8 and 9 in the morning because most people start work at 9. This would be a(n) _____.

- A) observation
- B) hypothesis
- C) experiment
- D) conclusion
- E) all the above

Answer: B

Section: 1.2

Learning Obj: 1.2

Global Outcomes: G1 Demonstrate an understanding of the principles of scientific inquiry.

11) To lower your commute time, you take a new route to class. This would be a(n) _____.

- A) observation
- B) hypothesis
- C) experiment
- D) conclusion
- E) all the above

Answer: C

Section: 1.2

Learning Obj: 1.2

Global Outcomes: G1 Demonstrate an understanding of the principles of scientific inquiry.

12) By the end of the semester, you see that the new route to class has cut 10 minutes a day from your commute time. This would be a(n) _____.

- A) observation
- B) hypothesis
- C) experiment
- D) conclusion
- E) all the above

Answer: D

Section: 1.2

Learning Obj: 1.2

Global Outcomes: G1 Demonstrate an understanding of the principles of scientific inquiry.

13) One way to enhance your learning in chemistry is to _____.

- A) study a little every day
- B) retest every few days
- C) go to office hours
- D) study different ideas at the same time
- E) all the above

Answer: E

Section: 1.3

Learning Obj: 1.3

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

14) One way to enhance your learning in chemistry is by _____.

- A) keeping a problem notebook
- B) working the Sample Problem before checking the answer
- C) answering the Engage questions
- D) responding to Thinking About Your Thinking
- E) all the above

Answer: E

Section: 1.3

Learning Obj: 1.3

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.

15) In order to enhance your learning in chemistry, you should not _____.

- A) study a little every day
- B) form a study group
- C) go to office hours
- D) retest every few days
- E) wait until the night before the exam to study

Answer: E

Section: 1.3

Learning Obj: 1.3

Global Outcomes: G7 Demonstrate the ability to make connections between concepts across chemistry.