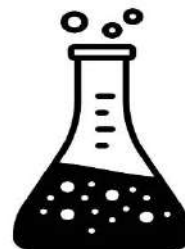


Name \_\_\_\_\_ Date \_\_\_\_\_



## BASICS OF CHEMISTRY QUIZ - Answer Key

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1. What is chemistry?

**Chemistry is the scientific study of chemical substances in terms of composition, structure and properties**

2. Why is the study of chemistry important?

**Answers will vary but should at least capture this: All things are made of chemicals and chemistry affects everything we do every day.**

3. What are some applications of chemistry in our everyday life?

**Answers will vary but should include some practical aspects of applied chemistry**

4. State any 3 branches or subdivisions of chemistry

- **Physical chemistry**
- **Analytical Chemistry**
- **Organic chemistry**
- **Inorganic chemistry**
- **Biochemistry**

5. Why is chemistry often referred to as the "central science"?

- **Chemistry serves as a bridge between other scientific disciplines.**
- **It provides a fundamental understanding of matter, its properties, and its interactions, all of which are essential for advancements in other scientific disciplines.**
- **Many scientific phenomena can be explained through chemical principles, making chemistry a cornerstone of scientific inquiry and innovation.**

6. Which of the following doesn't describe a job that a professional chemist can perform?

A. Developing new products such as fertilizers.

- B. Helping protect the environment by reducing pollution.  
C. Performing life-saving medical procedures.  
D. Performing quality control in manufacturing.

**7. Circle the letter of each sentence that describes the reasons why chemists conduct experiments on matter: I, II, IV, V**

- I. To determine the composition of matter or chemical substances that make up a particular object.  
II. To observe how the chemicals in substances behave under different conditions.  
III. To predict future weather patterns based on chemical reactions.  
IV. To understand how different substances in a particular object interact.  
V. To investigate how different substances in a particular object can be separated.
- 8. Reflect on how an understanding of chemistry can enhance your daily life and decision-making processes.**

**Answers will vary but should include things like:**

- **Enhances daily life by informing food choices, promoting environmental awareness, ensuring consumer product safety, and fostering critical thinking.**
- **Aids in household safety, cooking skills, and career opportunities, etc.**
- **Empowers informed decision-making in health, sustainability, and various aspects of modern living, etc.**