

Fundamental Science Essentials

Basic Science · Answer Key · 10 Questions

1. Which element has the highest thermal conductivity of all known elements?

- A) Copper
- B) Diamond**
- C) Silver
- D) Gold

2. What is the primary gas that makes up the Earth's atmosphere by volume?

- A) Oxygen
- B) Argon
- C) Carbon Dioxide
- D) Nitrogen**

3. Which phase of mitosis involves chromosomes lining up along the equatorial plane of the cell?

- A) Prophase
- B) Metaphase**
- C) Anaphase
- D) Telophase

4. In physics, what is the SI unit of pressure defined as one newton per square metre?

- A) Pascal**
- B) Joule
- C) Watt
- D) Volt

5. Which type of chemical bond involves the equal sharing of electron pairs between atoms?

- A) Ionic bond
- B) Metallic bond
- C) Nonpolar covalent bond**
- D) Hydrogen bond

6. What is the name of the process by which plants convert light energy into chemical energy?

- A) Respiration
- B) Transpiration
- C) Fermentation
- D) Photosynthesis**

7. Which planet in our solar system has the most extensive and visible ring system?

- A) Jupiter
- B) Saturn**
- C) Uranus
- D) Neptune

8. What is the hardest naturally occurring mineral on the Mohs scale of mineral hardness?

- A) Quartz
- B) Topaz
- C) Corundum
- D) Diamond**

9. Which subatomic particle carries a negative electrical charge?

- A) Proton
- B) Neutron
- C) Electron**
- D) Positron

10. What is the chemical symbol for the element Tungsten?

- A) Ta
- B) Ti
- C) W**
- D) Tg