

# World Quantum Day: Understanding the Universe's Language

Quantum Physics · Answer Key · 20 Questions

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## 1. When is World Quantum Day celebrated?

- A) April 14th**
- B) March 14th
- C) May 4th
- D) December 14th

## 2. What is the primary reason for celebrating World Quantum Day on April 14th?

- A) It's a reference to the first digits of Planck's constant (4.14)**
- B) It commemorates the birth of Albert Einstein
- C) It marks the discovery of the electron
- D) It aligns with the start of spring

## 3. What is Planck's constant?

- A) A fundamental constant governing quantum physics**
- B) A measure of gravitational force
- C) The speed of light in a vacuum
- D) A unit of electrical resistance

## 4. What are the units of Planck's constant mentioned in the text?

- A) electron volt second (eV·s)**
- B) meters per second (m/s)
- C) joules (J)
- D) newtons (N)

## 5. Besides its role in quantum physics, what is Planck's constant used to define?

- A) The kilogram**
- B) The meter
- C) The second
- D) The ampere

## 6. What is the main aim of World Quantum Day activities?

- A) To engage the general public in understanding Quantum Science and Technology**
- B) To conduct advanced quantum experiments
- C) To develop new quantum computing hardware
- D) To promote careers in theoretical physics

## 7. How does Quantum Science help us understand Nature?

**A) At its most fundamental level**

- B) By studying large-scale astronomical phenomena
- C) Through macroscopic observations
- D) By analyzing chemical reactions

## 8. What kind of technologies has Quantum Science helped develop?

**A) Technologies crucial for our life today**

- B) Only theoretical concepts
- C) Technologies that are obsolete
- D) Technologies primarily for space exploration

## 9. What can Quantum Science lead to in the future?

**A) Future scientific and technological revolutions**

- B) A decline in technological advancement
- C) A return to simpler technologies
- D) Only philosophical debates

## 10. What is the Quantum@Calendar project aiming to do?

**A) Record historical quantum events and make every day a quantum day**

- B) Predict future quantum discoveries
- C) Organize global quantum conferences
- D) Develop new quantum algorithms

## 11. When was the World Quantum Day initiative launched?

**A) April 14, 2021**

- B) April 14, 2022
- C) January 1, 2021
- D) December 31, 2020

## 12. What type of initiative is World Quantum Day described as?

**A) Decentralized and bottom-up**

- B) Top-down and centrally controlled
- C) Government-funded and mandated
- D) Privately funded and exclusive

## 13. Who is invited to participate in developing activities for World Quantum Day?

**A) Scientists, engineers, educators, communicators, entrepreneurs, technologists, historians, philosophers, artists, museologists, producers, etc.**

- B) Only university professors
- C) Only government officials
- D) Only students

**14. Which of the following is NOT mentioned as a type of activity for World Quantum Day?**

- A) Astronomy observations**
- B) Outreach talks
- C) Exhibitions
- D) Lab tours

**15. The value  $4.1356677 \times 10^{-15}$  eV·s is the rounded first digits of which fundamental constant?**

- A) Planck's constant**
- B) The speed of light
- C) Avogadro's number
- D) Boltzmann's constant

**16. What does the phrase 'DISCOVER THE LANGUAGE OF THE UNIVERSE' suggest about quantum science?**

- A) It helps us understand the fundamental workings of reality**
- B) It is a complex and inaccessible field
- C) It is only relevant to scientists
- D) It is a form of universal communication

**17. The World Quantum Day aims to encourage discussion about how quantum science can impact what?**

- A) Our society**
- B) Only the scientific community
- C) Individual financial markets
- D) Local weather patterns

**18. What is the significance of the number '4.14' in relation to World Quantum Day?**

- A) It's the rounded first digits of Planck's constant**
- B) It's the number of major quantum discoveries
- C) It's the date of a significant quantum experiment
- D) It's the number of participating countries

**19. The celebration of World Quantum Day is a global effort.**

- A) True**
- B) False

**20. The text implies that quantum physics is solely an academic subject with no practical applications.**

- A) False**
- B) True