

Computer Science Basics for Young Explorers

Computer Science · Answer Key · 20 Questions

1. What is the smallest unit of information a computer can understand?

- A) Byte
- B) Megabyte
- C) Bit**
- D) Kilobyte

2. Which of these is a popular programming language used to create websites?

- A) Python
- B) Scratch
- C) JavaScript**
- D) Java

3. What is the main 'brain' of a computer called?

- A) RAM
- B) Hard Drive
- C) Motherboard
- D) CPU**

4. What is a set of instructions that tells a computer what to do called?

- A) Hardware
- B) Algorithm
- C) Software**
- D) Data

5. Which of these is an example of 'input' hardware?

- A) Monitor
- B) Printer
- C) Keyboard**
- D) Speakers

6. What does 'CPU' stand for in computing?

- A) Central Processing Unit**
- B) Computer Personal Unit
- C) Central Power Unit
- D) Computer Program Unit

7. In programming, what is a 'loop' used for?

- A) To store data
- B) To repeat a block of code multiple times**
- C) To display text
- D) To connect to the internet

8. What is the temporary memory that a computer uses to run programs called?

- A) Hard Disk Drive
- B) SSD
- C) RAM**
- D) USB Flash Drive

9. Which of these is a common 'output' device for a computer?

- A) Microphone
- B) Mouse
- C) Webcam
- D) Speaker**

10. What is the term for a step-by-step procedure for solving a problem or completing a task?

- A) Bug
- B) Code
- C) Algorithm**
- D) Variable

11. What is the physical part of a computer that you can touch?

- A) Software
- B) Data
- C) Hardware**
- D) Program

12. Which visual programming language is popular for teaching coding to children?

- A) C++
- B) Scratch**
- C) Assembly
- D) Fortran

13. What is a 'variable' in programming?

- A) A type of computer hardware
- B) A placeholder for data that can change**
- C) A mistake in code
- D) A way to print to the screen

14. What is the main circuit board inside a computer that connects all the components?

- A) CPU
- B) RAM
- C) Hard Drive
- D) Motherboard**

15. What does the 'G' in JPG (or JPEG) stand for in image file formats?

- A) Graphics**
- B) Gigabyte
- C) Generate
- D) Global

16. Which of these is a non-volatile storage device that permanently stores data?

- A) RAM
- B) Cache Memory
- C) Hard Disk Drive**
- D) Graphics Card

17. In computer networking, what does 'URL' stand for?

- A) Uniform Resource Locator**
- B) Universal Remote Link
- C) User Rights List
- D) Underlying Resource Layer

18. What is a 'bug' in computer programming?

- A) A type of computer virus
- B) An error or flaw in the code**
- C) A piece of hardware
- D) A way to save files

19. What is the process of converting human-readable code into machine-readable instructions called?

- A) Debugging
- B) Compiling**
- C) Running
- D) Editing

20. What is the fundamental building block of digital circuits, representing either a 0 or a 1?

- A) Byte
- B) Word
- C) Bit**
- D) Nibble