



Introduction (5 minutes)

Welcome to the world of computers! In this exciting lesson, we will embark on a journey to explore the basics of computer hardware and software. By the end of this lesson, you will be able to identify and explain the basic components of a computer, understand the difference between hardware and software, and develop essential skills in using technology safely and effectively.

Lesson Objectives (5 minutes)

Let's review the lesson objectives:

1. Identify and explain the basic components of a computer
2. Understand the difference between hardware and software
3. Develop essential skills in using technology safely and effectively

Computer Hardware (15 minutes)

Computer hardware refers to the physical components of a computer, including the keyboard, mouse, monitor, and CPU. Let's explore each of these components in more detail:

- **Keyboard:** The keyboard is used for input, allowing you to type letters, numbers, and symbols.
- **Mouse:** The mouse is used for navigation, allowing you to click and interact with the computer.
- **Monitor:** The monitor displays the output of the computer, showing you what you are working on.
- **CPU:** The CPU, or central processing unit, is the brain of the computer, performing calculations and executing instructions.

Foundation Activity: Match the Computer Hardware Components (10 minutes)

Match the computer hardware components with their corresponding functions:

Component	Function
Keyboard	Input
Mouse	Navigation
Monitor	Output
CPU	Brain of the computer

Core Activity: Create a Diagram of a Computer System (15 minutes)

Create a diagram of a computer system, including the keyboard, mouse, monitor, and CPU. Label each component and explain its function.

[Space for diagram]

Extension Activity: Research and Create a Presentation (20 minutes)

Research and create a presentation about a specific computer hardware component, such as the CPU or RAM.

[Space for presentation notes]

Computer Software (15 minutes)

Computer software refers to the programs and operating systems that run on a computer. Let's explore some examples of software:

- **Operating System:** The operating system manages the computer's hardware and provides a platform for running applications.
- **Applications:** Applications are programs that perform specific tasks, such as word processing or gaming.
- **Games:** Games are programs that provide entertainment and interactive experiences.

Foundation Activity: Identify and Explain the Difference between an Operating System and an Application (10 minutes)

Identify and explain the difference between an operating system and an application:

Core Activity: Create a List of Different Types of Software (15 minutes)

Create a list of different types of software, including operating systems, applications, and games. Explain the purpose of each type of software.

[Space for list]

Extension Activity: Design and Create a Simple Program (20 minutes)

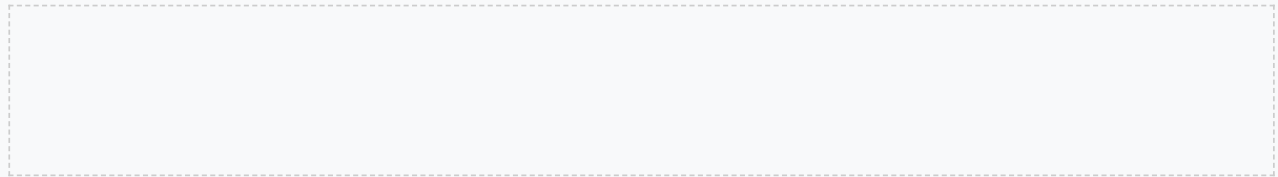
Design and create a simple program using a visual programming language, such as Scratch or Blockly.

[Space for program design]

Online Safety and Digital Citizenship (15 minutes)

When using computers and the internet, it's essential to practice online safety and digital citizenship. Let's explore some tips for staying safe online:

- **Create strong passwords:** Use a combination of letters, numbers, and symbols to create a strong password.
- **Avoid cyberbullying:** Treat others with kindness and respect online, just as you would in person.
- **Use technology responsibly:** Follow rules and guidelines for using technology, and always ask permission before sharing personal information.



Foundation Activity: Create a Poster or Drawing (10 minutes)

Create a poster or drawing that illustrates the importance of online safety and digital citizenship.

[Space for poster or drawing]



Conclusion (5 minutes)

In conclusion, understanding basic computer hardware and software is a fundamental skill for young learners in today's digital age. By mastering these concepts, you will be well-equipped to navigate the digital world with confidence and competence. Remember to always practice online safety and digital citizenship, and to use technology responsibly.

Assessment (10 minutes)

Complete a short quiz to assess your understanding of computer hardware and software:

Glossary (5 minutes)

Let's review the glossary:

- **CPU:** Central Processing Unit, the brain of the computer.
 - **Hardware:** Physical components of a computer, including the keyboard, mouse, and monitor.
 - **Software:** Programs and operating systems that run on a computer.
 - **Operating System:** Manages the computer's hardware and provides a platform for running applications.
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