Compare embedded and general purpose computer systems.

Describe the roles and purpose of system software as part of a computer system.

Explain the role of the operating system and utility software.

Describe the basic components of the CPU.

Describe the roles and purpose of each component of the CPU in computation.

Explain how the fetch-decode-execute cycle works by describing what happens at each stage.

Describe the role of each part of the CPU as part of the fetch-decode-execute cycle.

Describe the characteristics of RAM and ROM.

Explain the role of main memory as part of a computer system.

Define cache memory.

Describe the role of cache in a computer system.

Explain why a computer system needs secondary storage.

State the different types of secondary storage and describe their functional characteristics.

State how solid-state memory works and describe its characteristics.

Describe how data is read from and written to optical and magnetic memory.

Apply knowledge of storage devices to compare the three mediums of storage.

Apply the knowledge of storage devices to recommend an appropriate device.

Describe the limitations of secondary storage.

Explain the definition of 'cloud storage' and describe the characteristics of cloud storage.

Explore the factors that impact a CPU's performance.

Select components to create a computer system.

Evaluate a computer's suitability for a given task.

Lesson 1

Lesson 2

Lesson 3

Lesson 4

Lesson 5

Lesson 6

Lesson 7

Lesson 8