Describe how logical operators are used to form logical expressions.

Use logic gates to construct simple logic circuits.

Associate logic circuits with logical operators and expressions.

Explain that program instructions specify operations that are to be performed on data.

Describe the function of the hardware components used in computing systems.

Describe how hardware is built out of increasingly complex logic circuits.

Explain how hardware components work together in order to execute programs.

Recall that both data and instructions need to be represented using binary digits.

Identify that all computing systems, regardless of form, have a similar architecture.

Explain the role of an operating system in controlling program execution.

Recall that a general-purpose computing system is a device for executing programs.

Explain the difference between a general-purpose computing system and a purpose-built device.

Describe how AI differs from traditional programming.

Identify examples of AI in the real world.

Associate the use of artificial intelligence with moral dilemmas.

Key:

Concept

Skill