

Define the essential components of computer science, **algorithms** and **abstraction**
Construct **plain-language algorithms** to solve basic tasks

Recognize and use the basic **data types** in programs
Interpret and react to basic **error messages** caused by programs
Use **variables** in code and trace the different values they hold

Understand how different **number systems** can represent the same information
Translate **binary numbers** to decimal, and vice versa
Interpret binary numbers as abstracted types, including **colors** and **text**

Use **function calls** to run pre-built algorithms on specific inputs
Identify the **argument(s)** and **returned value** of a function call
Use **libraries** to import functions in categories like math, randomness, and graphics

Use **function definitions** when reading and writing algorithms to implement procedures that can be repeated on different inputs
Recognize the difference between **local** and **global scope**
Trace the **function calls** to understand how Python keeps track of nested function calls