

Do Space Code Community Lesson Plan: Cycle 4 :C++

Lesson 1 : Introduction and overview

Read: [C++ Overview](#)

Video: [Introduction to C++](#)

How to Begin: [Getting Started with C or C++](#)

Local Environment Setup: [Local Environment Setup](#)

Practice: [Print "Hello World"](#)

Lesson 2: Basics (Syntax, Comments, Data Types, Variables Types, Variables Scope)

Read: [Tutorialspoint - C++ Basic Syntax](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3schools Exercise](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Lesson 3: Basics(Constants/Literals, Modifier Types, Strong Classes, Operators, Loop Types, Decision Making)

Read: [Tutorialspoint - Constants/ Literals](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3schools Exercise](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Lesson 4: Basics(Functions, Numbers, Arrays, Strings, Pointers, References, Date&Time, Basic Input/Output, Data Structures)

Read: [Tutorialspoint - Functions](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3schools Exercise Strings](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Lesson 5: Object Oriented (Classes & Objects, Inheritance, Overloading, Encapsulation and Interfaces)

Read: [Tutorialspoint- Classes & Objects](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3schools Exercise Objects & Classes](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Lesson 6: Advanced (Files and Streams, Exception Handling, dynamic memory and Namespaces)

Read: [Tutorialspoint- Files and Streams](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3 Schools](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Lesson 7: Advanced (Templates, Preprocessor, signal handling Multithreading, Web Programming)

Read: [Tutorialspoint - Templates](#)

Video: [Youtube Caleb Curry C++ Tutorials](#)

Practice: [W3 Schools](#)

Quick Tip: [C++ Quick Reference Sheet](#)

Resources

https://youtube.com/playlist?list=PL_c9BZzLwBRJVJsIfe97ey45V4LP_HXiG

<https://www.tutorialspoint.com/cplusplus/index.htm>

<https://www.learncpp.com/>

<https://www.w3schools.com/cpp/>