

Computer Science Pre-AP 1st Semester Syllabus

Using Scratch, Alice, Jeroo, and Java

Computer Science Overview - Lab Orientation

Intro to Computer Science using Scratch

Scratch website - <http://scratch.mit.edu/>

Getting Started with Scratch

Basic Programming Constructs

Ifs, Loops, Variables, and Animation

Large Programming Project

Transition from Scratch to Alice

Alice website – <http://www.alice.org>

Getting Started with Alice

Program Design and Implementation

Making Decisions

Classes, Objects, Methods, and Parameters

Interactive Programming

Loops

More Loops

Large Programming Project

Transition from Alice to Jeroo

Jeroo website - <http://home.cc.gatech.edu/dorn/jeroo>

Getting Started with Jeroo

Basic Programming Constructs

If statements and decision making

Writing methods and passing parameters

Loops

Large Programming Project

Semester Exam