# Intro to Programming Curriculum Map

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| **Introduction**<br>● Class structure & expectations<br>● First Program: Hello World!<br>● Programming languages<br>● Learning to Program: How & Why | Fall : end of Aug<br>Spring: first half of Jan |
| **Expressions, Variables, & Assignment Statements**<br>● Print statements<br>● Values, types, literals<br>● Expressions<br>● Variables & Assignment Statements | Fall : first half of Sep<br>Spring: second half of Jan |
| **Functions**<br>● Using & defining functions<br>● Flow-of-Execution<br>● Identifiers & Scope<br>● Libraries | Fall : second half Sep<br>Spring: first half of Feb |
| **Program Development**<br>● Why & how to write good code | Fall : early Oct<br>Spring: mid Feb |
| **Fruitful Functions & Conditionals**<br>● Defining functions that return values<br>● Boolean expressions<br>● Conditional Execution | Fall : mid-to-Late Oct<br>Spring: late Feb to early Mar |
| **Lists & Loops**<br>● Lists: using, creating, modifying<br>● For Loops<br>● Traversing Lists<br>● Lists as Objects<br>● List shuffling & random selection | Fall : late Oct to early Nov<br>Spring: second half of Mar |
| **Files & Dictionaries**<br>● Reading & writing files<br>● Using & creating dictionaries<br>● Traversing text & dictionaries | Fall : mid Nov<br>Spring: first half Apr |
| **Object Oriented Programming Intro**<br>● Methods, properties, classes, object creation | Fall : late Nov. to early Dec<br>Spring: second half Apr |
| **Independent Final Project & Review** | Fall : mid-to-late Dec<br>Spring: May |