

Code*Genius* - Python Programming Curriculum

1. Intro to programming in general, why is programming important, why is Python one of the best languages
2. Variables and simple data types - numbers, booleans
3. Strings - what they are and what they're typically used for
4. Lists only 1-dimensional
5. More lists, 2d especially
6. Loops and conditionals - if, while, for
7. More complex conditionals - logical operators, chained conditionals, break/return
8. How to get user input
9. Project 1
10. Turtle graphic systems
11. Turtle pt. 2
12. Dictionaries, tuples
13. Functions - what they are, how they work
14. File input/output
15. Project 2
16. Various modules - random, time, math
17. Project 3
18. Recursion - how to use it, what situations it can be used for
19. Project 4
20. Classes and Objects
21. Classes and Objects pt. 2
22. Final Project
23. Final Project pt. 2