



Computer Science Principles

Unit 1 - Digital Information

Overview:

This unit explores the technical challenges and questions that arise from the need to represent digital information in computers and transfer it between people and computational devices. Topics include the digital representation of information - numbers, text, images, and communication protocols.

Lessons:

1. Impact of Innovation
2. Sending Binary messages
3. More complex messages
4. Bit Sending Widget
5. Sending Bits in the Real World
6. Number Systems
7. Binary numbers
8. Sending numbers
9. Encoding Numbers in the Real World
10. Encoding and Sending Text
11. Sending formatted Text
12. Bytes and File Sizes
13. Text Compression
14. Encoding B&W images
15. Encoding Color images
16. **Project** - Personal Falcon

Practice PT: Encode a complex piece of information

30 days
~6 weeks

Unit 2 - The Internet

Overview:

Students continue to work together to invent solutions and protocols to many of the problems that arise in the structure and function of the Internet. Topics include the Internet Protocol, DNS, TCP/IP, cryptography and other security and hacking concerns.

Lessons:

1. Addressing Messages
2. Addressing for Computers
3. Name-to-address mapping
4. Finding your friends
5. IP Addresses, URLs, and DNS
7. Packet Switched Networks
8. Problems with packets
9. Redundancy and Routing
10. "Who can see my data?"
11. Routing, Scaling The internet
12. Securing our bits
14. Intro to encryption
15. Computationally hard problems
16. "Hard" security
17. Public Key Cryptography
19. Security and Hacking in the real world
20. Intro to AppLab
21. Putting information on the web

Practice PT: Internet and Privacy Issues

30 days
~6 weeks

Unit 3 - Programming

Overview: Students learn the fundamentals programming constructs of javascript by solving problems with "turtle graphics" and then simple event-driven apps. An emphasis is placed on enabling students to solve problems and write code in teams.

Lessons:

1. Solving Big Problems with CS
2. The Need for Programming Languages
3. Quick Tour of Pencil Code
4. Programming with Primitives
5. Function Junction
6. Function Challenge
7. Parameterized Functions
8. **Project:** Design Your Own Font
9. Application Programming Interface
10. Team Design
11. Team Programming
12. Variables
13. Variable Arithmetic
14. Numeric input
15. Interactive Apps with Variables
16. Conditionals (to be re-written)
17. If Statements (to be re-written)
18. Nested If-statements
19. While Loops (to be written)
20. **Project:** Quiz-App
21. What does the Internet know about you?

Practice PT: Writing about Code

40 days
~8 weeks

Unit 4 - Data

Overview: Students continue programming and building web apps, now with a view towards data: processing it with algorithms, and the implications of storing data collected from and by others on the web. Students explore "big data" by making queries against a data analysis api.

Lessons:

Please, currently under development

1. Utility of Random numbers
2. A coin flipping experiment
3. Construct your own experiment
4. **Project:** Run your experiment
5. Processing Lists and what "Big Data" means
6. Process a small list
7. Manipulate items in a list
8. Investigate image data
9. Simple image filters
10. **Project:** Make your own image filter
11. Storing user data in a database
12. Retrieving data from your database
13. The risks of storing personal data
14. **Project:** Make an app that uses data from a database
15. Experiments with big data
16. Programming against an api (wolfram)
17. Extracting knowledge from data

Practice PTs: Integrated into projects

30 days
~6 weeks

Unit 5 - Explore and Create

Overview:

This unit is primarily dedicated time for students to prepare and finish their performance task projects. A few instructional days will allow the teacher to prepare the students before "letting them go" to work on their projects.

Lessons:

- Prepare for Create PT
- Do CREATE
- Prepare for Explore PT
- Do Explore

Real PTs

10-15 days
~2-3 weeks

Sept (17) Oct (23) Nov (26) Dec (14) Jan (17) Feb (17) Mar (22) Apr (14)

Principles Of Science Two

Susan Wise Bauer, Jessie Wise



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