Computer Science Discoveries - Level 6

Computer Science Discoveries (CS Discoveries) is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.

- <u>Audience:</u> Middle and high school students, grades 6 - 10
- <u>Curriculum length:</u> 40 hours
- <u>Prior knowledge:</u> None! Just bring your curiosity.

CSD Unit 1 - Problem Solving and Computing
CSD Unit 2 - Web Development

CSD Unit 1 - Problem Solving and Computing

The Problem Solving Process

Lesson 1: Intro to Problem Solving
Lesson 2: The Problem Solving Process
Lesson 3: Exploring Problem Solving
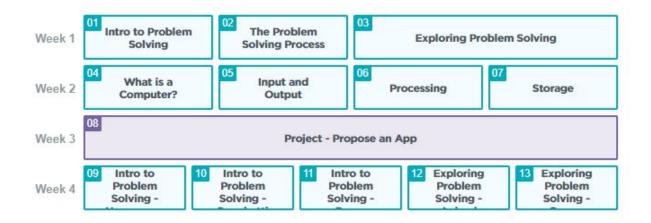
Computers and Problem Solving

Lesson 4: What is a Computer?
Lesson 5: Input and Output
Lesson 6: Processing
Lesson 7: Storage

Project - Propose an App

Lesson 8: Project - Propose an App

The Problem Solving Process

Lesson 9: Intro to Problem Solving - Newspaper Table
Lesson 10: Intro to Problem Solving - Spaghetti Bridge
Lesson 11: Intro to Problem Solving - Paper Tower
Lesson 12: Exploring Problem Solving - Animals Theme
Lesson 13: Exploring Problem Solving - Games Theme

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CSD Unit 2 - Web Development

Chapter 1: Creating Web Pages

Lesson 1: Exploring Web Pages
Lesson 2: Intro to HTML
Lesson 3: Headings
Lesson 4: Mini-Project: HTML Web Page
Lesson 5: Digital Footprint
Lesson 6: Styling Text with CSS
Lesson 7: Mini-Project: Your Personal Style
Lesson 8: Intellectual Property
Lesson 9: Using Images
Lesson 10: Websites for Expression
Lesson 11: Styling Elements with CSS
Lesson 12: Your Web Page - Prepare
Lesson 13: Project - Personal Web Page

Chapter 2: Multi-page Websites

Lesson 14: Websites for a Purpose
Lesson 15: Team Problem Solving
Lesson 16: Sources and Research
Lesson 17: CSS Classes
Lesson 18: Planning a Multi-Page Site
Lesson 19: Linking Pages
Lesson 20: Project - Website for a Purpose
Lesson 21: Peer Review and Final Touches

xtra+ curriculum

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Week 1	**01** Exploring Web Pages	**02** Intro to HTML	**03** Headings	**04** Mini-Project: HTML Web Page
Week 2	**05** Digital Footprint	**06** Styling Text with CSS	**07** Mini-Project: Your Personal Style	**08** Intellectual Property
Week 3	**09** Using Images	**10** Websites for Expression	**11** Styling Elements with CSS	**12** Your Web Page - Prepare
Week 4	**13** Project - Personal Web Page			
Week 5	**14** Websites for a Purpose	**15** Team Problem Solving	**16** Sources and Research	**17** CSS Classes
Week 6	**18** Planning a Multi-Page Site		**19** Linking Pages	
Week 7	**20** Project - Website for a Purpose		**21** Peer Review and Final Touches	