K-12 Computer Science, Evidence That Benchmarks Are Not Taught in Isolation Correlation

Course, Title of Materials, Grade Level

Lesson	Benchmark of Focus	Connecting Benchmark(s)	Example:
Unit 1: Lesson 7: Managing Files: Organization, Navigation, and Understanding File Extensions	SC.912.CC.1.2: Utilize tools within a project environment to communicate.	Lesson Objective before: "Mapping the Tech Career Ladder" Lesson Objective after: " Managing Your Digital Library: File System & Management" Activity	p. 43: File Management Techniques: Taking Control of Your Digital Assets Your operating system provides a powerful file manager application (File Explorer on Windows, Finder on macOS, Files on Chrome OS) that offers a comprehensive set of tools to organize, manage, and manipulate your files and folders. Mastering these tools will significantly enhance your productivity, efficiency, and control over your digital assets. p. 45: By consistently practicing these file management techniques, you'll develop good digital habits that will serve you well throughout your academic and professional life. A well organized file system is a cornerstone of productivity and efficiency in the digital age, enabling you to access, manage, and utilize your digital resources effectively. Remember, mastering your files is mastering your digital world.

Lesson	Benchmark of Focus	Connecting Benchmark(s)	Example:
Unit 9, Lesson 5: Building with Code: Combining Variables, Input, and Formulas	SC.912.CS.1.2: Describe computer security vulnerabilities.	Lesson Objective before: "Automating the Greenhouse" Lesson Objective after: "Combining Variables, Input, and Formulas Activity"	p. 615: Input Validation For robust and reliable programs, it's crucial to validate user input to ensure that it's in the expected format, within the allowed range, and meets any other specific criteria defined by the program's requirements. Input validation can prevent errors, unexpected program behavior, and security vulnerabilities. Various techniques can be used for input validation, including checking data type, range checks, format validation using regular expressions, and data sanitization to prevent malicious input.

Lesson	Benchmark of Focus	Connecting Benchmark(s)	Example:
Unit 1, Lesson 5: Climbing the Ladder—Entry-Level to Senior Roles in Tech	SC.912.TI.1.10: Analyze technology-related career paths.	Lesson Objective before: "CS in Real Life: Careers, Concepts, and Everyday Impact" Lesson Objective after: "Mapping the Tech Career Ladder Activity"	p. 28: IT Director/Manager Supervises IT operations, ensures systems meet business needs, manages large budgets, and coordinates with other departments. p.29: Entry-Level vs. Senior Roles: Quick Comparison Understanding how responsibilities, skills, and expectations change as you grow in a tech career can help you plan ahead. A side-by-side breakdown of the key differences between entry-level and senior-level roles: