**Computer Science Discoveries Pre-Assessment** Name:

**Computer Fundamentals**

1. In the home-row style of typing, which key does the right index finger initially hover over / rest on?
   1. S
   2. J
   3. C
   4. R
2. What is the keyboard shortcut to save progress in a Word document?
   1. Ctrl + Shift + O
   2. Alt + U
   3. Ctrl + S
   4. Ctrl + Alt + W
3. How do you search for a program on a Windows computer?
   1. Ask Siri
   2. Use the search bar on the toolbar or in the start menu
   3. Look on the desktop; if it isn’t there, then it isn’t installed
   4. Right click on the desktop, select “New Program”, and type the name of the program you’re looking for
4. How do you fix a keyboard that is typing in all caps?
   1. Replace the keyboard
   2. Decrease the font size
   3. Press shift while typing
   4. Turn off caps lock
5. Which of the following is a programming language?
   1. Coffee
   2. Espresso
   3. Java
   4. Latte

**The Software Development Life Cycle (SDLC)**

1. What is the purpose of the SDLC?
   1. It describes the steps by which software is created and maintained
   2. It creates software that you want to be developed
   3. It serves no purpose and is only a formality
   4. It shows how software developers go through different stages in their lives
2. What is the first step in the SDLC?
   1. Planning
   2. Design
   3. Implementation
   4. Maintenance
3. What is the last step in the SDLC?
   1. Testing and Integration
   2. Analysis
   3. Maintenance
   4. Implementation
4. Which step in the SDLC would communicating with clients to determine software requirements fall under?
   1. Planning
   2. Testing and Integration
   3. Design
   4. Maintenance
5. Which types of software is the SDLC relevant to?
   1. Video Games
   2. Websites and Web Systems
   3. Embedded Systems
   4. Any piece of software

**Web Design**

1. What is the most important part of a good website?
   1. Content and Ease of Navigation
   2. Accessibility and Readability
   3. Responsiveness and Load Times
   4. Engagement and Interactivity
2. Which languages are typically used in web page creation?
   1. Java, JavaScript, Io
   2. HTML, CSS, JavaScript
   3. JavaScript, C#, Ruby
   4. COBOL, Prolog, Python
3. What are standard components of a web system?
   1. Start point, Database, Endpoint
   2. Beginning Page, Finish Page, Database
   3. Front End, Back End, Database
   4. Page, Book, Library
4. What does an HTTP 404 error code indicate?
   1. The web server you tried to access is offline
   2. The web server you tried to access denied your access
   3. The webpage you tried to access doesn’t exist
   4. The webpage you tried to access denied your access
5. What is a standard communication flow for logging into a website?
   1. Web Page 🡪 Web Server 🡪 Database 🡪 Web Server 🡪 Web Page
   2. Web Page 🡪 Database 🡪 Web Server 🡪 Database 🡪 Web Page
   3. Web Page 🡪 Web Server 🡪 Web Page 🡪 Database 🡪 Web Page
   4. Web Page 🡪 Database 🡪 Web Server 🡪 Web Page 🡪 Database

**Video Game Development**

1. What is the most important part of a good video game?
   1. Storyline
   2. Graphics
   3. Replayability
   4. Responsiveness / High framerate
2. What is a game engine?
   1. Store where games are bought
   2. Software collection that dictates how a game and its components work together
   3. A hardware component that allows you to play games in a car
   4. Software collection that shows how to play a game
3. What are standard components of a game engine?
   1. Physics simulator, audio driver, lighting processor
   2. Piston adaptor, transmission connector, brake pad attachment clip
   3. Characters, items, and inventories
   4. Sprites, animations, soundwaves
4. Which of the following is **NOT** a game platform?
   1. PC
   2. Xbox
   3. PlayStation
   4. Analog
5. Which languages are typically used in game development?
   1. Java, JavaScript, CSS
   2. HTML, XML, CSS
   3. C#, JavaScript, C++
   4. The languages used depend on the targeted platform