

12<sup>th</sup> Grade Computers 2016-2017 (1 semester elective)

Yap Seventh-Day Adventist School

Yearly Lesson Outline with NAD Standards

**Overall Goals**

- Word
- PowerPoint
- Excel
- HTML / CSS
- Programming: JavaScript game

**MS Office (Excel, Word, PowerPoint)**

COMP.5.1 — Select, validate, and effectively utilize appropriate technologies for the completion of specific tasks (email, FTP, Listserv, etc.).

COMP.5.2 — Use a variety of equipment and software to enter, process, display, and communicate information (word processing, spreadsheets, databases, presentations).

COMP.6.1 — Communicate ideas effectively to diverse audiences (presentations, letters, spreadsheets, etc.).

COMP.6.2 — Interact, collaborate, and publish with a variety of audiences (peers, experts, others).

COMP.7.2 — Demonstrate understanding of and compliance with the school's acceptable use policy.

**Web Development (HTML)**

CPTR.4.1 — Identify key terms and concepts (HTML, JPEG, SQL, etc.).

CPTR.4.2 — Design and develop a website using an HTML editor (Dreamweaver, FrontPage, etc.).

CPTR.4.3 — Create forms, tables, hyperlinks, etc.

CPTR.4.4 — Publish web pages to a web server.

**Intro to Programming (Python)**

CPTR.5.1 — Describe programming languages (Visual Basic, Visual C++, Java, etc.).

CPTR.5.2 — Identify key terms and concepts (variables, loops, functions, etc.).

CPTR.5.3 — Write, compile, run, and debug a properly coded program.

**3D Animation (in Blender), Photo Editing / Manipulation, Audio**

CPTR.8.1 — Identify key terms and concepts (perspective, lighting, depth of field, etc.).

CPTR.8.2 — Frame object and/or formalize a storyboard and script.

CPTR.8.3 — Determine appropriate equipment and setup (camera, lighting, audio, positioning, etc.).

CPTR.8.4 — Capture images using appropriate hardware and software.

CPTR.8.5 — Edit and produce final projects.