

Learning Objectives within the AIS Information and Communication Technology Curriculum

The learning objectives of the six core ICT areas below are a range of concepts to be introduced and reinforced from Orca through to Grade 6, as outlined in respective grade level curriculum mapping. The curriculum endeavors to allow learners to build on previous skills, yet be flexible in terms of study time available and progression made. Learners' real-life experience of using ICT (including computers, tablets, smart devices, digital media players, social media and video games) should be acknowledged and referred to whenever relevant.

Digital Technology Awareness

L.O.: *To learn what a computer is and what you can do with one*

L.O.: *To understand types of computer applications in use*

L.O.: *To learn why it is important to consider useability by others when creating programs*

L.O.: *To learn about artificial intelligence and the role it has in our lives*

L.O.: *To learn how to be safe when using digital devices (Common Sense)*

Computer Operation Skills

L.O.: *To learn how to care for a computer, and turn it on and off*

L.O.: *To learn basic computer operations*

- ◆ Start a device (Chromebook/computer)
- ◆ Shut down a device using the shut menu and power button
- ◆ Plug in a device for charging
- ◆ Use the keyboard and trackpad (a mouse: left/right click, single/double)
- ◆ Access the internet
- ◆ Open programs/applications from a shortcut icon
- ◆ Open programs/applications from the start menu
- ◆ Open, create and save documents
- ◆ Print documents
- ◆ Drag + drop, copy + paste, etc.
- ◆ Name/rename folders
- ◆ Store files in device and Google Drive

L.O.: *To build on basic computer operations and Internet searching skills*

L.O.: *To build up keyboard skills*

L.O.: *To learn how to use word processing software (Google Docs)*

- ◆ Create a new document, enter text, and save it.
- ◆ Open and edit existing documents.
- ◆ Navigate in a document and perform a search.
- ◆ Select and move text.
- ◆ Format characters and paragraphs, fonts and images.
- ◆ Use AutoCorrect and Help tools.
- ◆ Create and edit tables.
- ◆ Control page and document appearance.

- ◆ Print documents.

L.O.: *Build up word processing skill*

L.O.: *To use the functions in Google Docs to make a poster for an upcoming AIS event or awareness theme*

L.O.: *To use the functions in Google Docs to make a survey*

L.O.: *To learn how to use presentation software (Google Slides)*

- ◆ Create title and bullet slides.
- ◆ Create slides in outline view.
- ◆ Modify slide text and check spelling.
- ◆ Select a template
- ◆ Insert a table.
- ◆ Work with text, drawn objects, and drawing tools.
- ◆ Use clip art and word art.
- ◆ Change text and bullets in the slide master and remove objects.
- ◆ Use slide show options; add transitions and animation.
- ◆ Run a manual and an animated slide show.
- ◆ Work with notes.
- ◆ Print a presentation

L.O.: *To learn basic spreadsheet skills (Google Sheets)*

- ◆ Open files and use page setup.
- ◆ Enter, correct, and save data.
- ◆ Use the menu commands.
- ◆ Format cells, rows, and columns.
- ◆ Understand navigation and movement techniques.
- ◆ Use simple arithmetic functions in the formulas.
- ◆ Access Help.
- ◆ Print worksheets and workbooks

Online Learning

L.O.: *To learn manners for online learning on Zoom*

L.O.: *To learn how to use Google Classroom and Meet*

Programming Skills

L.O.: *To learn basic computer coding using fixed-task activities*

L.O.: *To build up basic computer coding concept understanding*

L.O.: *Learn what an algorithm is and how it functions*

L.O.: *To further build up basic computer coding understanding and skills with Scratch*

- ◆ *Getting started*
- ◆ *Sprites and Backdrops*
- ◆ *Algorithms*
- ◆ *Loops*
- ◆ *Conditionals, if/else*

- ◆ *Events, input/output*
- ◆ *Variables*
- ◆ *Functions, functions with parameters*
- ◆ *Decomposition, abstraction*
- ◆ *Remixing*

L.O.: *To be aware of other programming languages (Python, HTML, JavaScript)*

L.O.: *Apply programming skills to other curriculum subjects (Math, Japanese)*

Computational Thinking

L.O.: *To learn to give clear and logical instructions to achieve a task*

L.O.: *To learn about sequencing to achieve a task*

L.O.: *To learn about sorting networks*

L.O.: *To learn how binary digits work*

Consolidate and Apply Digital Technology Skills

L.O.: *To apply ICT skills to devising a website or application*