Nuwarra ICT Continuum

Integrating ICT capability [(NESA)](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/understanding-the-curriculum/programming/integrating-ict-capability)

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| **HARDWARE AND SOFTWARE** | | | | | | | | |
| **ICT**  **Learning Area** | **Kindergarten** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
|  | **Typically, by the**  **end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** | **Typically, by the end of this Year students will be able to:** |
|  | | | | | | | | |
| **Computer Skills** | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson. ENE-REFLU-01, ENE-HANDW-01, STe-7DI-T  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) ENE-VOCAB-01 | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN1-VOCAB-01  Recognise and open applications from the Start Menu. EN1-RECOM-01  Find and open documents: My Documents and Class Folder. EN1-RECOM-01  Find and open documents: Collaboration. EN1-RECOM-01  Save work in the correct folder. | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN1-VOCAB-01  Recognise and open applications from the Start Menu. EN1-RECOM-01  Find and open documents: My Documents and Class Folder. EN1-RECOM-01  Find and open documents: Collaboration. EN1-RECOM-01  Save work in the correct folder. | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN2-VOCAB-01  Recognise and open applications from the Start Menu EN2-VOCAB-01  Find and open documents: My Documents and Class Folder. EN2-RECOM-01  Find and open documents: Collaboration. EN2-RECOM-01  Save work in the correct folder. | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN2-VOCAB-01  Recognise and open applications from the Start Menu. EN2-RECOM-01  Find and open documents: My Documents and Class Folder. EN2-RECOM-01  Find and open documents: Collaboration. EN2-RECOM-01  Save work in the correct folder. | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN3-VOCAB-01  Recognise and open applications from the Start Menu. EN3-RECOM-01  Find and open documents: My Documents and Class Folder. EN3-RECOM-01  Find and open documents: Collaboration. EN3-RECOM-01  Save work in the correct folder. | Turn computer and monitor on and off.  Log on with personal ID. Sign out at end of lesson.  Identify computer parts (keyboard, monitor, headphone jack, microphone jack…) EN3-VOCAB-01  Recognise and open applications from the Start Menu. EN3-RECOM-01  Find and open documents: My Documents and Class Folder. EN3-RECOM-01  Find and open documents: Collaboration. EN3-RECOM-01  Save work in the correct folder. |
| **Basic Keyboard Skills** | Move mouse, use left click and double click. ENE-HANDW-01  Use Ctrl+Alt+Del to start computer.  Identify capital letters, Enter, Space Bar, Shift, Backspace, delete, CTRL and ALT on keyboard. ENE-HANDW-01, ENE-VOCAB-01, ENE-PRINT-01  Use A-Z and (.)  keys and 1-0 keys  to log on to computer. ENE-HANDW-01  Type first name and last name. ENE-PRINT-01, ENE-HANDW-01  Type simple sentences with correct punctuation. ENE-HANDW-01, ENE-PRINT-01  Use backspace to fix errors. ENE-HANDW-01  Use @ symbol to log on.  Use arrow keys for positioning and games.  Use backspace to fix errors. | Identify capital letters, Enter, Space Bar, Shift, Backspace, delete, CTRL and ALT on keyboard. EN1-VOCAB-01  Identify Tab, Caps lock. EN1-VOCAB-01  Type first name and last name.  Type simple sentences with correct punctuation. EN1-CWT-01  Use backspace to fix errors. EN1-HANDW-01  Use @ symbol to log on. | Identify capital letters, Enter, Space Bar, Shift, Backspace, delete, CTRL and ALT on keyboard. EN1-VOCAB-01  Identify Tab, Caps lock. EN1-VOCAB-01  Type simple sentences with correct punctuation. EN1-CWT-01  Use backspace to fix errors. EN1-HANDW-01 | Use CTRL + S (save), CTRL + C (copy), CTRL + V (paste), CTRL + P (print), CTRL + F (find), CTRL + Z (undo), CTRL + Y (redo) and CTRL + ALT+ DEL (logon / sign off / shutdown). EN2-VOCAB-01  Type sentences with correct punctuation. EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03 | Use CTRL + S (save), CTRL + C (copy), CTRL + V (paste), CTRL + P (print), CTRL + F (find), CTRL + Z (undo), CTRL + Y (redo) and CTRL + ALT+ DEL (logon / sign off / shutdown). EN2-VOCAB-01  Type sentences with correct punctuation. EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03 | Use CTRL + S (save), CTRL + C (copy), CTRL + V (paste), CTRL + P (print), CTRL + F (find), CTRL + Z (undo), CTRL + Y (redo) and CTRL + ALT+ DEL (logon / sign off / shutdown). EN3-VOCAB-01  Type sentences with correct punctuation. EN3-CWT-01 | Use CTRL + S (save), CTRL + C (copy), CTRL + V (paste), CTRL + P (print), CTRL + F (find), CTRL + Z (undo), CTRL + Y (redo) and CTRL + ALT+ DEL (logon / sign off / shutdown). EN3-VOCAB-01  Type sentences with correct punctuation. EN3-CWT-01 |
| **INTERNET** | | | | | | | | |
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| **Navigation** | Use internet browser to open to Nuwarra Weebly.  Use dropdown menus, tabs to navigate. | Use internet browser to open to Nuwarra Weebly.  Use dropdown menus, tabs to navigate. | Use internet browser to open to Nuwarra Weebly.  Use dropdown menus, tabs to navigate. | Create a shortcut on the task bar to a website.  Type in a website URL. EN2-VOCAB-01  Recognise and open a hyperlink. | Create a shortcut on the task bar to a website.  Type in a website URL. EN2-VOCAB-01  Recognise and open a hyperlink. | Create a shortcut on the task bar to a website.  Type in a website URL. EN3-VOCAB-01  Recognise and open a hyperlink. | Create a shortcut on the task bar to a website.  Type in a website URL. EN3-VOCAB-01  Recognise and open a hyperlink. |
| **Searching** |  |  |  | Use internet browser to search for specific information and images. EN2-VOCAB-01,  EN2-RECOM-01  Download, save and print from a trusted website. EN2-RECOM-01 | Use internet browser to search for specific information and images. EN2-VOCAB-01, EN2-RECOM-01  Download, save and print from a trusted website. EN2-RECOM-01 | Use internet browser to search for specific information and images. EN3-VOCAB-01, EN3-RECOM-01  Download, save and print from a trusted website. EN3-RECOM-01 | Use internet browser to search for specific information and images. EN3-VOCAB-01, EN3-RECOM-01  Download, save and print from a trusted website. EN3-RECOM-01 |
| **Internet Safety** | Knowledge of internet safety. (ACTDIP005) | Knowledge of internet safety | Knowledge of internet safety | Knowledge of internet safety (incorrect websites, cyber bullying and sharing personal information). EN2-VOCAB-01, EN2-RECOM-01 | Knowledge of internet safety (incorrect websites, cyber bullying and sharing personal information). EN2-VOCAB-01, EN2-RECOM-01 | Knowledge of internet safety (incorrect websites, cyber bullying and sharing personal information). EN3-RECOM-01 | Knowledge of internet safety (incorrect websites, cyber bullying and sharing personal information). EN3-RECOM-01 |
| **VOCABULARY** | | | | | | | | |
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|  | Recognise and understand taught Tier 1 and Tier 2 technology words. ENE-VOCAB-01  Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. ENE-VOCAB-01 | Recognise and understand taught Tier 1 and Tier 2 technology words. EN1-VOCAB-01  Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN1-VOCAB-01 | Recognise and understand taught Tier 1 and Tier 2 technology words. EN1-VOCAB-01  Understands and effectively uses Tier 1 computer words, taught  Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN1-VOCAB-01 | Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN2-VOCAB-01 | Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN2-VOCAB-01 | Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN3-VOCAB-01 | Understands and effectively uses Tier 1 computer words, taught Tier 2 technology words and Tier 3 subject/  programme vocabulary to extend and elaborate ideas. EN3-VOCAB-01 |
| **PROGRAMMES** | | | | | | | | |
| **WORD PROCESSING SKILLS (MS WORD)** | | | | | | | | |
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|  | Change size of text. ENE-CWT-01  Change colour of text. ENE-CWT-01 | Apply to all skills below  EN1-CWT-01, EN1-HANDW-01  Type simple sentences with correct punctuation.  Change size of text.  Change colour of text.  Change font of text.  Resize and move clipart. | Apply to all skills below  EN1-CWT-01, EN1-HANDW-01  Type simple sentences with correct punctuation.  Change size of text.  Change colour of text.  Change font of text.  Insert clipart.  Resize and move clipart.  Insert shapes. | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Type simple paragraph with correct punctuation.  Change size, colour, and font of text.  Align text.  Insert Word Art, graphics, clipart, and photographs.  Resize and move graphics, clipart, and photographs.  Insert shapes. | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Type simple paragraph with increasingly more complex sentences and correct punctuation.  Change size, colour, and font of text.  Align text.  Insert Word Art, graphics, clipart, and photographs.  Resize and move graphics, clipart, and photographs.  Demonstrate awareness of Spell Check.  Insert shapes, and text box. EN2-VOCAB-01 | Apply to all skills below  EN3-CWT-01,  EN3-HANDW-01  Type complex sentences and paragraphs with correct punctuation.  Insert text border.  Insert page border.  Demonstrate awareness and use of Spell Check. EN2-VOCAB-01  Use bulleted and numbered lists.  Insert shapes, and text box. | Apply to all skills below  EN3-CWT-01,  EN3-HANDW-01  Type complex sentences and paragraphs with correct punctuation.  Insert text border.  Insert page border.  Demonstrate awareness and use of Spell Check. EN3-VOCAB-01  Use bulleted and numbered lists.  Insert shapes, and text box. |
| **PRESENTATION SKILLS (POWERPOINT)** | | | | | | | | |
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|  |  | Create a new slide. EN1-HANDW-01 | Create a new slide. EN1-HANDW-01 | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Create a new slide.  Insert, duplicate, and delete slide.  Reorganise slides.  Insert graphics, clipart, shapes, and photographs.  Resize and move graphics, clipart, shapes, and photographs.  Insert, resize, and move text box.  Create a slideshow.  Use a background. | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Create a new slide.  Insert, duplicate, and delete slide.  Reorganise slides.  Insert graphics, clipart, shapes, and photographs.  Resize and move graphics, clipart, shapes, and photographs.  Insert, resize, and move text box.  Create a slideshow.  Use a background. | Apply to all skills below  EN3-CWT-01, EN3-HANDW-02  Create a new slide.  Insert, duplicate, and delete slide.  Reorganise slides.  Insert graphics, clipart, shapes, and photographs.  Resize and move graphics, clipart, shapes, and photographs.  Insert, resize, and move text box.  Create a slideshow.  Use a background.  Use a transition.  Animate an object.  Set speed /timing of slideshow.  Use a Design Template.  Create an animation. | Apply to all skills below  EN3-CWT-01, EN3-HANDW-02  Create a new slide.  Insert, duplicate, and delete slide.  Reorganise slides.  Insert graphics, clipart, shapes, and photographs.  Resize and move graphics, clipart, shapes, and photographs.  Insert, resize, and move text box.  Create a slideshow.  Use a background.  Use a transition.  Animate an object.  Set speed /timing of slideshow.  Use a Design Template.  Create an animation. |
| **SPREADSHEET SKILLS (EXCEL)** | | | | | | | | |
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|  |  | Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula). EN1-VOCAB-01, EN1-RECOM-01  Insert data.  Create a line, bar, and pie graph from data. EN1-VOCAB-01, EN1-RECOM-01  Apply colour to rows, cells, and columns. EN1-HANDW-01 | Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula). EN1-VOCAB-01, EN1-RECOM-01  Insert data.  Create a line, bar, and pie graph from data. EN1-VOCAB-01, EN1-RECOM-01  Apply colour to rows, cells, and columns. EN1-HANDW-01 | Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula). EN2-VOCAB-01  Insert data.  Create a line, bar, and pie graph from data. EN2-VOCAB-01, EN2-HANDW-02  Use Sum and Average formulas. EN2-HANDW-02  Copy and paste cells. EN2-HANDW-02  Apply colour to rows, cells, and columns. EN2-HANDW-02 | Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula). EN2-VOCAB-01  Insert data.  Create a line, bar, and pie graph from data. EN2-VOCAB-01, EN2-HANDW-02  Use Sum and Average formulas. EN2-HANDW-02  Copy and paste cells. EN2-HANDW-02  Apply colour to rows, cells, and columns. EN2-HANDW-02  Begin to use conditional formula. EN2-HANDW-02 | Apply to all skills below  EN3-CWT-01  Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula). EN3-VOCAB-01  Insert data.  Create a line, bar, and pie graph from data. EN3-VOCAB-01  Use Sum and Average formulas.  Copy and paste cells.  Apply colour to rows, cells, and columns.  Insert a border around cells.  Create, duplicate, and delete page.  Begin to use conditional formula | Apply to all skills below  EN3-CWT-01  Demonstrate knowledge and use of spreadsheet terms (cell, row, column, fill down, fill right, formula).  EN3-VOCAB-01  Insert data.  Create a line, bar, and pie graph from data. EN3-VOCAB-01  Use Sum and Average formulas.  Copy and paste cells.  Apply colour to rows, cells, and columns.  Insert a border around cells.  Create, duplicate, and delete page.  Begin to use conditional formula |
| **DRAWING (KIDPIX)** | | | | | | | | |
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|  | Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes. ENE-VOCAB-01  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text. ENE-PRINT-01, ENE-CWT-01 | Apply to all skills below  EN1-CWT-01, EN1-HANDW-01  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes.  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound. | Apply to all skills below  EN1-CWT-01, EN1-HANDW-01  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes.  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound.  Make a slideshow to explain a concept.  Animate 3D pictures. | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes. EN2-VOCAB-01  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound.  Add voice.  Make a slideshow to explain a concept.  Animate 3D pictures. | Apply to all skills below  EN2-CWT-01, EN2-CWT-02,  EN2-CWT-03, EN2-HANDW-02  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes. EN2-VOCAB-01  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound.  Add voice.  Make a slideshow to explain a concept.  Animate 3D pictures. | Apply to all skills below  EN3-CWT-01  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes. EN3-VOCAB-01  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound.  Add voice.  Change the colour and design of pre-formatted graphics.  Make a slideshow to explain a concept.  Animate 3D pictures. | Apply to all skills below  EN3-CWT-01  Use the mouse to control the pencil, paint tools, paint bucket, spray can, to make basic 2D and 3D shapes. EN3-VOCAB-01  Paint with 3D objects to make e.g. borders.  Insert backgrounds, stickers, and stamps.  Use Undo and erase.  Add text.  Add sound.  Add voice.  Change the colour and design of pre-formatted graphics.  Make a slideshow to explain a concept.  Animate 3D pictures. |
| **CODING (BeeBot)** | | | | | | | | |
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|  | Follow, order, and describe a sequence of steps and decisions (algorithms) needed to solve problems. STe-2DP-T, ENE-VOCAB-01, ENE-OLC-01  Design a process to solve an identified problem, e.g.: a set of instructions to move a BeeBot from one point to another. STe-7DI-T, ENE-OLC-01 | Describes, follows, and represents algorithms to solve problems. ST1-11DP-T, EN1-VOCAB-01, EN1-RECOM-01  Bee bot: materials, tools, and equipment to develop solutions for a need or opportunity.  Follow a visual sequence of steps and decisions (algorithms) needed to solve problems. e.g.:  controlling a digital device remotely- Bee Bot. EN1-RECOM-01  Present a sequence of instructions using visual programming  language: test and **evaluate** the steps (algorithms) in solving a problem. ST1-11D1-T | Describes, follows, and represents algorithms to solve problems. ST1-11DP-T, EN1-VOCAB-01, EN1-RECOM-01  Bee bot: materials, tools, and equipment to develop solutions for a need or opportunity.  Follow a visual sequence of steps and decisions (algorithms) needed to solve problems. e.g.:  controlling a digital device remotely- Bee Bot. EN1-RECOM-01  Present a sequence of instructions using symbolic programming  language: test and **evaluate** the steps (algorithms) in solving a problem. ST1-11D1-T, EN1-CWT-01 |  |  |  |  |
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|  | Recognise and  explore digital systems (hardware and software  components) for a purpose  [(ACTDIK001 - Scootle )](http://www.scootle.edu.au/ec/search?accContentId=ACTDIK001) |  |  | Identify and explore a range of digital systems with peripheral devices for different purposes, and transmit different types of data  [(ACTDIK007 - Scootle )](http://www.scootle.edu.au/ec/search?accContentId=ACTDIK007)  Recognise different types of data and explore how the same data can be represented in different ways  [(ACTDIK008 - Scootle )](http://www.scootle.edu.au/ec/search?accContentId=ACTDIK008) e.g. graphs |  | Examine the main components  of common digital systems and how  they may connect together to form networks to transmit data  [(ACTDIK014 - Scootle )](http://www.scootle.edu.au/ec/search?accContentId=ACTDIK014)  Examine how  whole numbers  are used to represent all data  in digital systems  [(ACTDIK015 - Scootle )](http://www.scootle.edu.au/ec/search?accContentId=ACTDIK015) |  |
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|  | By the end of Year 2, students identify how common digital systems (hardware and software) are used to meet specific purposes. They use digital systems to represent simple patterns in data in different ways.  Students design solutions to simple problems using a sequence of steps and decisions. They collect familiar data and display them to convey meaning. They create and organise ideas and information using information systems and share information in safe online environments. |  |  |  | |  | | | |