

Teaching programming Years 3–10

Use your year band for an overview of the content related to programming. In some cases it includes suggested related content as you can integrate with another learning area.

Use-Modify-Create is one approach to support and guide your students. A learner first (use) an existing program to see what it does, then modify it and, when able, creates a new project of their own.

Pair programming is another useful pedagogy. Two students, a driver and a navigator, work side-by-side. The driver controls the programming activities while the navigator assists with instructions for programming, looks for errors and monitors progress against the algorithm. After some time the roles are reversed.

From Years 3–4 students are expected to use a visual programming language which is often referred to as block-based programming. From Years 7–10 students are expected to use a general purpose programming (GPP) language such as Python, JavaScript or C++.

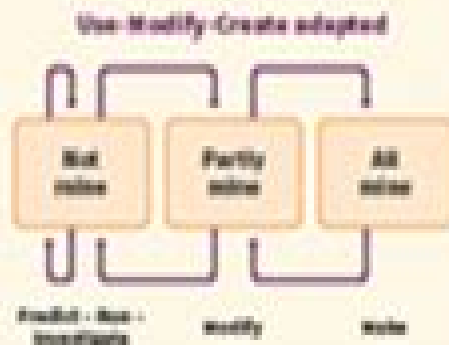
Here are a range of resources and approaches that you might use to implement programming.

Learning resources and approaches	Visual programming	General purpose programming
Coding platforms and environments	Scratch, Snap, Blockly, micro:bit, Pascal code and Tynker	Replit, Glitch, JupyterLab, and CodePen, W3Schools, Swift (Apple's coding environment)
Online courses, tutorials and coding challenges	Code.org, Geek Academy, Scratch community	Geek Academy, W3Schools, Codecademy, IT Hub and Khan Academy
Project based learning	micro:bit, Programmable robots, App Inventor	Arduino, Raspberry pi, micro:bit, Programmable robots and robotic kits

An essential resource



Use-Modify-Create adapted



Foundation

This concept does not appear in the Australian Curriculum Digital Technologies in Foundation.

There is related content in Mathematics.

Use and interpret everyday language of location and direction, such as behind, near, next to, forward, forward, above, below, on top of, under.

Describe the position of an object compared to another object.

Related content

Connect language of position and movement to students' lives.



Mathematics

Describe the position (location) of themselves and objects in relation to other people and objects, using a suitable space representation to support.

Years 1–2

This concept does not appear in the Australian Curriculum Digital Technologies in Years 1–2.

A precursor to using a formal programming language is to use a grid to plan programmable floor robots.

This enables students to use computational thinking, learn basic programming concepts and implement simple algorithms. (See Algorithms)

There is related content in Mathematics.

Provide relevant contexts to use locational and directional language such as opposite, half-turn, left and right, forwards and backwards, clockwise and anti-clockwise, and use steps to describe distance.

Related content

Using a floor robot to move along a pathway.



Mathematics

Use and label directions to move people and objects in different locations within a space. (Mathematics in Learning)

Locate positions in two-dimensional representations of a familiar space. Mark positions by following directions and pathways. (Mathematics in Learning)

Programming In F

Jicheng Xie



Programming In F:

Reviewing **Programming In F**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Programming In F**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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