# Levels F-2 Overview of units

Digital Learning and Teaching Victoria
Digital Technologies case studies project

|  | Unit A | Unit B | Unit C |
|---|---|---|---|
| Title / theme | Cubetto (Foundation) | Scratch Jr (Grade 1) | Count your steps! (Grade 2) |
| Summary / intention | Students use the language forwards, backwards, left and right to direct the Cubetto to different locations on the map. | Students create a story in Scratch Jr with a beginning, middle and end. Students code characters to 'send messages' to sequence steps in their story. | Students are introduced to block coding and using external devices (micro:bit) to create a 'Fitbit'. Students use the movement sensing function of the micro:bit to count their steps and display the number on the LEDs. |
| Approximate number of hours | 5 | 7 | 10 |
| Assessment piece or pieces | Observation of giving verbal instructions | Finished story project | Series of tasks, code creation observation. |
| Hardware and software tools used | Cubetto | iPads Scratch Jr app | micro:bit Microsoft Make Code |

Curriculum Content Descriptions addressed:

**DIGITAL SYSTEMS**

**VCDTDS013:** Identify and explore digital systems (hardware and software components) for a purpose.

**DATA AND INFORMATION**

**VCDTDI014:** Recognise and explore patterns in data and represent data as pictures, symbols and diagrams.

**VCDTDI015:** Collect, explore and sort data, and use digital systems to present the data creatively.

**VCDTDI016:** Independently and with others create and organise ideas and information using information systems, and share these with known people in safe online environments.

**CREATING DIGITAL SOLUTIONS**

**VCDTCD017:** Follow, describe and represent a sequence of steps and decisions (algorithms) needed to solve simple problems.

**VCDTCD018:** Explore how people safely use common information systems to meet information, communication and recreation needs

| Unit A | Unit B | Unit C |
|---|---|---|
| **DIGITAL SYSTEMS** | **DIGITAL SYSTEMS** | **DIGITAL SYSTEMS** |
| ☒ VCDTDS013 | ☒ VCDTDS013 | ☒ VCDTDS013 |
| **DATA AND INFORMATION** | **DATA AND INFORMATION** | **DATA AND INFORMATION** |
| ☐ VCDTDI014 | ☐ VCDTDI014 | ☐ VCDTDI014 |
| ☐ VCDTDI015 | ☐ VCDTDI015 | ☐ VCDTDI015 |
| ☐ VCDTDI016 | ☒ VCDTDI016 | ☐ VCDTDI016 |
| **CREATING DIGITAL SOLUTIONS** | **CREATING DIGITAL SOLUTIONS** | **CREATING DIGITAL SOLUTIONS** |
| ☒ VCDTCD017 | ☒ VCDTCD017 | ☒ VCDTCD017 |
| ☐ VCDTCD018 | ☐ VCDTCD018 | ☐ VCDTCD018 |