The difference between the Victorian Digital Technologies Curriculum and ICT

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Digital Technologies Curriculum			ICT	

Hardware, software and networks

Printer
Internet
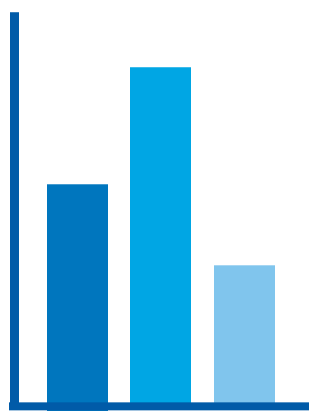PC
Switch
Server
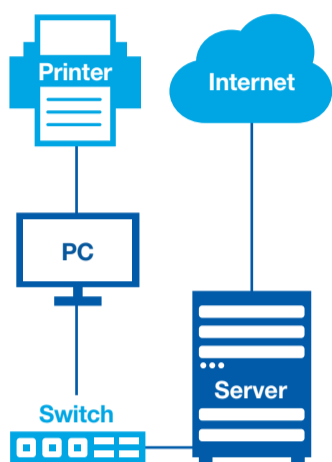
Examine the components of a network.

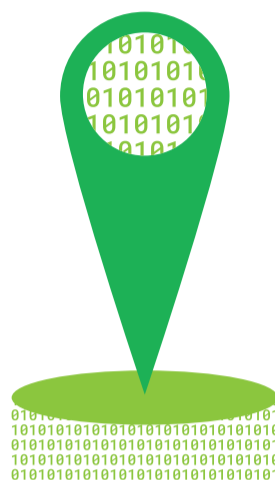### Data representation

<0101010>
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Visually represent different types of data.

Data acquisition

Collect and use data to create a chart.
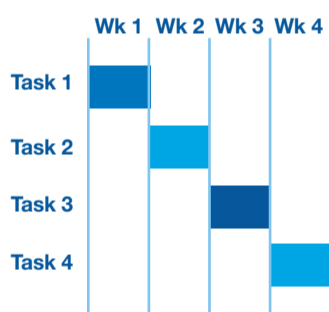
Locate data

Locate data relating to a topic using a search engine.
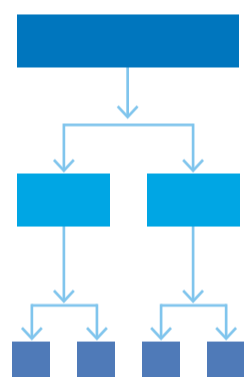
Organise data and create solutions

Use software to create a solution for a specific audience.

Creating and communicating ideas

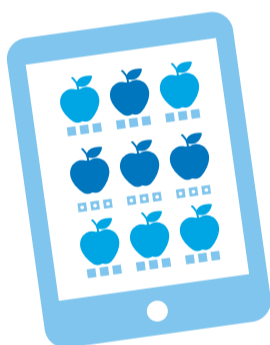|	Wk 1	Wk 2	Wk 3	Wk 4
Task 1				
Task 2				
Task 3				
Task 4				

Plan a project involving students working online.
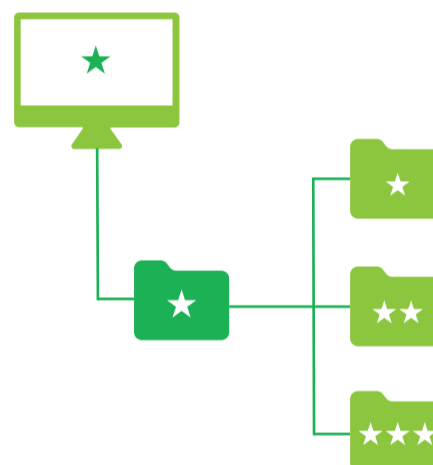
Solving problems

Define a problem and break down into parts.

User interface design

Create a mock-up to show design ideas.

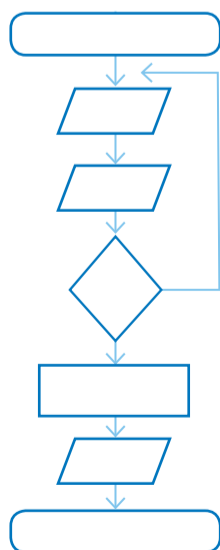### Manage and maintain data

Save student work using appropriate folder names and file names.

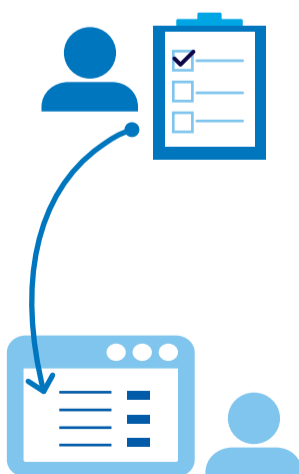### Share ideas

Use a class blog to share ideas and content.

Algorithms

Design an algorithm involving a sequence of steps.

Programming

Develop a simple visual program to control a robot.

Solution evaluation

Evaluate a classmate's software solution.

Protection of identity, privacy and safety

Use strong passwords to protect student data.

Apply social protocols

Do
Don't

Use appropriate etiquette when communicating online.

Within the Digital Technologies Curriculum the Creating Digital Solutions Strand follows the problem-solving methodology stages of: Analysis, Design, Development and Evaluation.

Information Communication Technologies (ICT) follows the four elements of: Creating, Inquiring, Communicating and Protecting.

Victorian Curriculum Foundation–10

VICTORIAN CURRICULUM AND ASSESSMENT AUTHORITY

VICTORIA State Government

The difference between the Victorian Digital Technologies Curriculum and ICT

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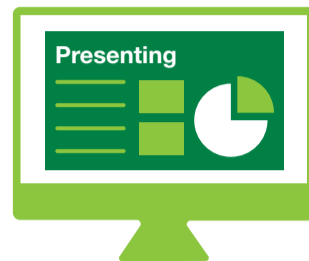| Digital Technologies Curriculum	ICT

Hardware, software and networks

Investigate data transmission through wireless networks.

Data representation

Analyse the compression of sound data using software.

Create presentations

Presenting

Use suitable formats and conventions when creating a presentation.

Online polls

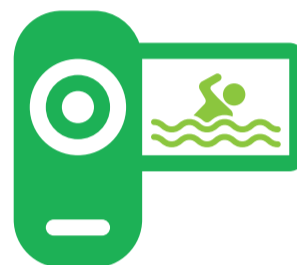Use an online poll to answer a teacher's questions in class.

Data acquisition

Check the authenticity of data found through a search engine.
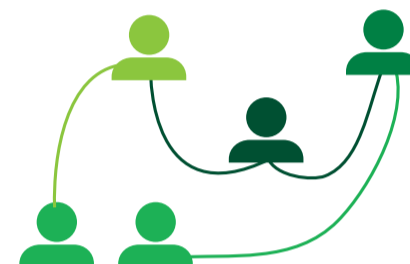
Data visualisation

Analyse and visualise data to identify patterns and relationships.

Data capture tools

Use a video camera to record the swimming technique of a new swimmer.

Mind maps

Show the relationships between characters in a novel.
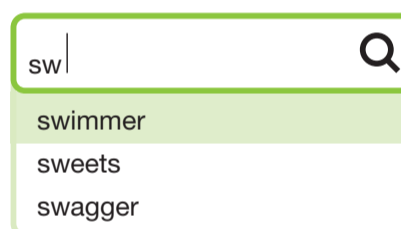
Managing and creating

Manage collaboration by storing files online.

Solving problems

Input	Processing	Ouput

Decompose a problem into smaller problems or modules.

Keyword search

```
sw
swimmer
sweets
swagger
```

Use key words when searching for a topic in a search engine.

Online collaboration

Use a shared document to contribute ideas and content.
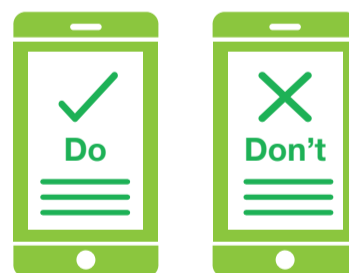
User experience design

Design the user interface for a software solution using design tools.

Algorithms

```
If a > 10
    return true
Else
    Return false
EndIf
```

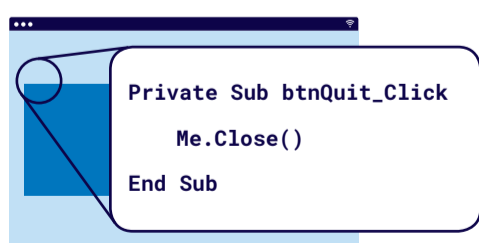Use structured English to express an algorithm.

Protocols

Do   Don't

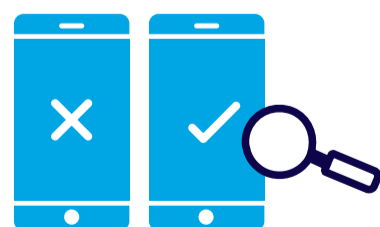Consider ethical, social and cultural issues when communicating.

Legislation

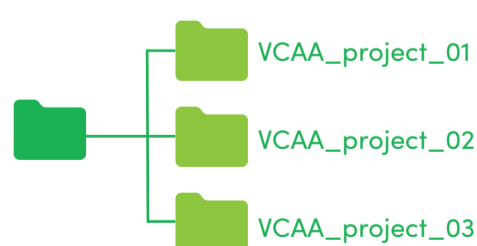Understand Copyright, intellectual property and Creative Commons.

Programming

```
Private Sub btnQuit_Click
    Me.Close()
End Sub
```

Develop modules to perform discrete functions.

Solution evaluation

Critically evaluate a student-developed solution to a problem.

File management

VCAA_project_01
VCAA_project_02
VCAA_project_03

Use appropriate folder names and file names when saving work.

Security

* * * * * * * *

Use strategies to protect personal data and information.

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AND ASSESSMENT AUTHORITY

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