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# VCE UNITS INFORMATION

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## VCE Computing: Data Analytics Units 3 and 4

### CONTENT

#### Unit 3

In Unit 3, you will apply the problem-solving methodology to identify and extract data through the use of software tools such as database, spreadsheet and data visualisation software to create data visualisations or infographics. You will respond to teacher-provided solution requirements and designs, and develop data visualisations and use appropriate software tools to present findings. You will propose a research question, prepare a project plan, collect and analyse data, and design infographics or dynamic data visualisations.

#### Unit 4

In Unit 4, you will focus on determining the findings of a research question by developing infographics or dynamic data visualisations based on large complex data sets and on the security strategies used by an organisation to protect data and information from threats. You will develop your preferred design into infographics or dynamic data visualisations, and evaluate the solutions and project plan. You will investigate security practices of an organisation including examining the threats to data and information, evaluating security strategies and recommending improved strategies for protecting data and information.

### OUTCOMES

#### Unit 3

- You will respond to teacher-provided solution requirements and designs to extract data from large repositories, manipulate and cleanse data and apply a range of functions to develop software solutions to present findings
- You will propose a research question, formulate a project plan, collect and analyse data, generate alternative design ideas and represent the preferred design for creating infographics or dynamic data visualisations

#### Unit 4

- You will develop and evaluate infographics or dynamic data visualisations that present findings in response to a research question, and assess the effectiveness of the project plan in monitoring progress
- You will respond to a teacher-provided case study to investigate the current data and information security strategies of an organisation, examine the threats to the security of data and information, and recommend strategies to improve current practices

### ASSESSMENT

Students will complete a range of tasks during the course, including a written report, design folio, software solution, and case study with structured questions.

Unit 3		Unit 4	
School Assessed Coursework	10%	School Assessed Coursework	10%
School Assessed Task for Unit 3 Outcome 2 and Unit 4 Outcome 1 will contribute 30% to the study score			
Units 3 and 4 VCE Computing: Data Analytics examination will contribute 50% to the study score			