

INTRODUCING THE
**UNITS 3 & 4 EDROLO
FURTHER MATHS**
TEXTBOOKS



VCE FURTHER MATHEMATICS

Units 3 & 4

- **VCAA-style questions** based on a thorough analysis of past exams
- **Exemplar answers** with a **video solution** for every multiple lesson question
- **Step-by-step calculator instructions** for both TI-nspire and CASIO Classpad
- **Concise theory** covering the core knowledge required within the scope of the VCAA Study Design
- **Edrolo Theory Master videos** aligned directly to textbook chapters
- **Full lessons dedicated to difficult concepts** deep dive into areas of the Study Design students find most challenging:
 - Decoding VCAA questions to identify the skills required
 - Utilising calculator tools and functions

3RD EDITION

NAVIGATING YOUR EDROLO TEXTBOOK ONLINE

PLANNING AHEAD

VCE FURTHER MATHEMATICS UNIT 3&4 [2020]

Bookmarks All videos View printable unit plan

To assist with planning, there is an editable and downloadable **unit plan** available for your course.

ACCESSING THE TEXTBOOK PDFS, DIGITAL TEXTBOOK QUESTIONS AND SOLUTIONS

Core: Data Analysis - Chapter 1

Chapter 1 - Univariate data - Edrolo - Textbook - Solutions PDF

Chapter 1 - Univariate data - Edrolo - Textbook PDF

Chapter 1

1A: Data types	17 min video	Class progress	28 questions
1B: Displaying and interpreting distributions of categorical data	40 min video	Class progress	20 questions
1C: Displaying and interpreting distributions of numerical data	32 min video	Class progress	50 questions
1D: Displaying data with Log scales	41 min video	Class progress	31 questions
1E: Finding median and IQR from dot and stem plots	32 min video	Class progress	38 questions
1F: 5 number summaries and box plots	41 min video	Class progress	26 questions

All questions found in the text are also available as interactive digital questions. To access these, click on the **X questions** button next to the corresponding theory lesson.

For multiple-choice questions, students receive immediate feedback.

Q2aii

Classify each variable as:

The height of members in a basketball team

Nominal, ordinal, continuous or discrete

(1 mark)

☐ A Nominal

☒ B Ordinal

☐ C Continuous

☐ D Discrete

Speed: 1x

Classify each variable as:

I. numerical or categorical

II. nominal, ordinal, continuous or discrete

a) The height of members in a basketball team

II. (1 MARK)

Solution:

Height is a numerical variable that can be any number. Its accuracy is limited only by the instrument. Therefore, it is a continuous variable.

Height is a continuous variable. (1 mark)

I'm confident in my understanding
If I came across this question again I'm confident I'd succeed

I need help, or more study
I'm not confident enough with the concepts to succeed on this question in future

Click the **Additional Resources** icon beside each **Area of Study** to find your **Textbook PDFs**.

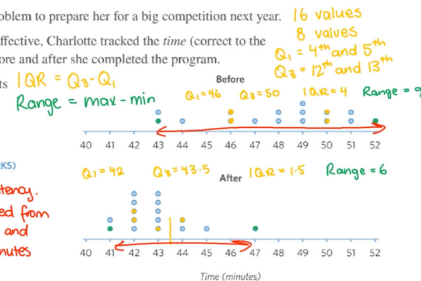
Charlotte is a long distance runner.

Her coach formulated an intense training program to prepare her for a big competition next year. In order to see if the training program was effective, Charlotte tracked the time (correct to the nearest minute) it took her to run 10 km before and after she completed the program.

Her results are shown in the parallel dot plots to the right.

b) Did the training program improve Charlotte's consistency? Write a brief explanation, referencing spread. (2 MARKS)

Yes, it did improve Charlotte's consistency. The range of Charlotte's times improved from 9 to 6 after the training program, and her IQR improved from 4 to 1.5 minutes after the training program.



CHECKING STUDENT RESPONSES

Q2dii

Responses	Understands	Answered correctly
12/12	10/12	9/12

Name	Understands?	A	B	C	D
Ashamed Antelope				✓	
Casual Caribou			✗		
Comfortable Chimpanzee				✓	
Global Gerbil				✓	
Material Monkey				✓	
Main Mosquito				✓	
Misleading Mouse			✗		
Ready Rabbit				✓	
Small Sheep				✓	
Separate Sow				✓	
Swift Sow					✗
Written Wallaby				✓	

Multiple students have summarized

Multiple-choice results: see each student's answer and reflection on their understanding as well as a summary of your whole class.