



Website: [contoureducation.com.au](http://contoureducation.com.au) | Phone: 1800 888 300  
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VCE Biology  $\frac{3}{4}$   
Welcome to Contour [0.1]  
Workbook

Outline:



<b><u>Introduction to Contour!</u></b>	Pg 2-9	
<b><u>Contour Ecosystem</u></b>	Pg 10-13	<b><u>Your Class</u></b> Pg 15
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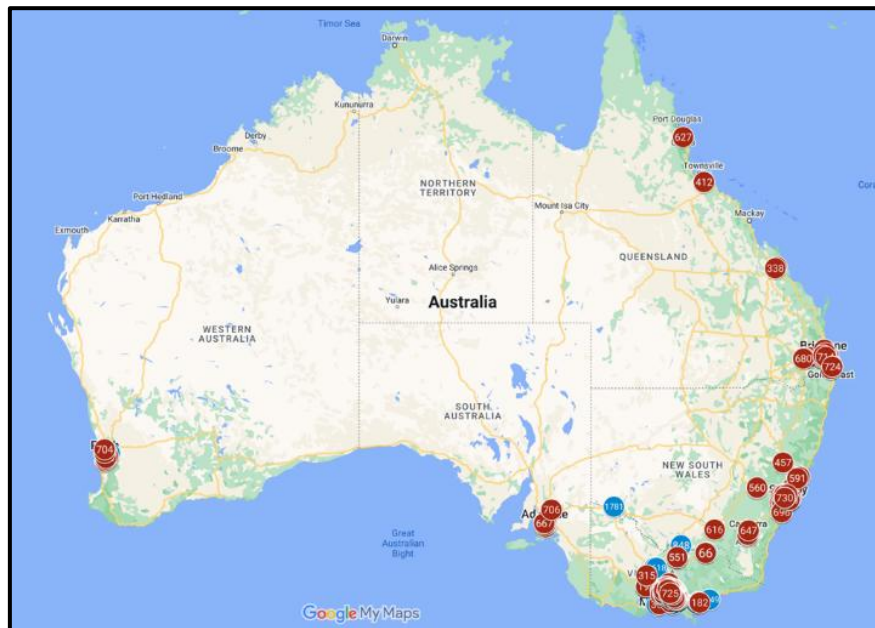
## Section A: Introduction to Contour!

## Welcome to Contour!

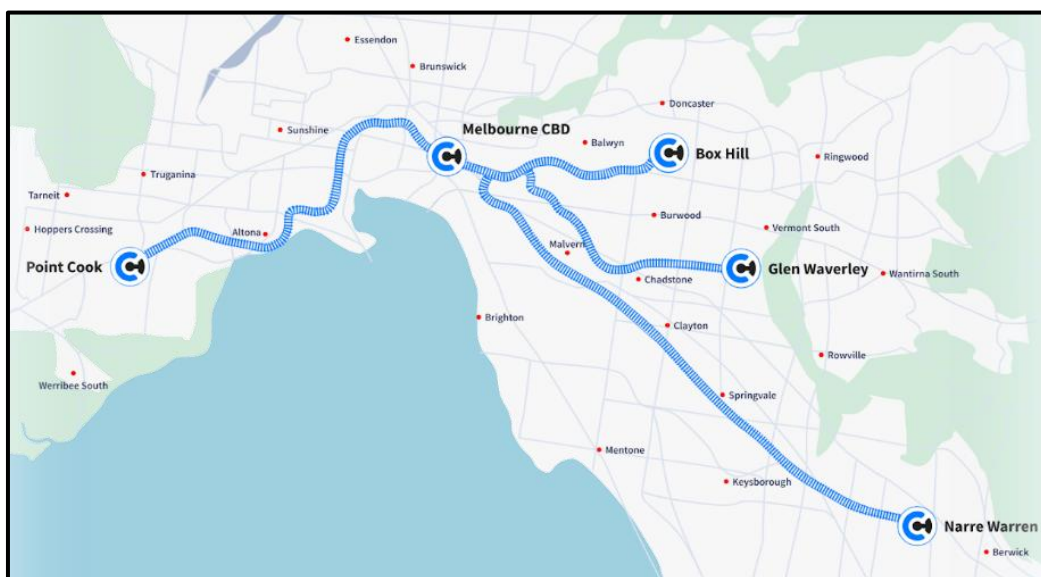


## Our Background and Past Results

- ▶ We're one of the largest and (still) fastest-growing tuition centres in Victoria and Australia.



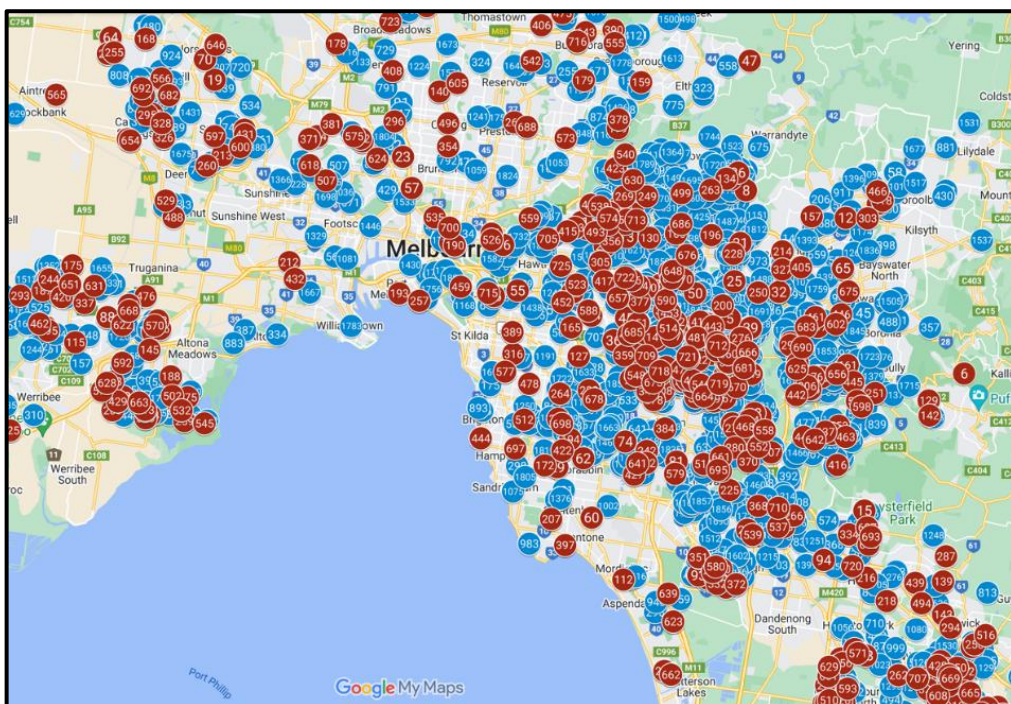
*We've tutored 5,000+ happy students so far, from all over Victoria.  
(and even Australia and beyond with our MedPrep programs)!*



*We Have Three New Contour Campuses Coming in 2025.  
(Our Flagship Melbourne CBD Campus, Narre Warren, and Point Cook!)*



*We're **stoked** to have you join us, and we're looking forward to help you succeed and achieve your goals!*



*Every single one of those circles is a Contour student who we've directly impacted!*





*Just some of our 150+ VCE classes from 2024 😊*

➤ How does Contour tutoring work?

- 🔗 We specialise in **small group classes**, run by **experienced VCE tutors**.
- 🔗 We also offer **heaps of practice material**, our **learning portal**, and **1-on-1 consultations** for help and support.
- 🔗 Finally, we emphasise **practice and preparation** for **SACs and exams**.



**ANGAD SINGH**  
CO-FOUNDER



**AMITAV MADAN**  
CO-FOUNDER



# Recent ATARs at Contour

From Students Across All Our Programs

<b>Jerry</b> (MGS Dux '23)	<b>99.95</b>	<b>Krishav</b> (MHS Dux '23)	<b>99.95</b>	<b>Pranav</b> (HT Dux '23)	<b>99.95</b>	<b>Ramodh</b> (MHS Dux '21)	<b>99.95</b>	<b>Aidin</b> (MHS '23)	<b>99.90</b>	<b>Jineth</b> (MHS '23)	<b>99.90</b>
<b>Rosemary</b> (MGGS Dux '...)	<b>99.90</b>	<b>Chelsea</b> (MGGS Dux '...)	<b>99.90</b>	<b>Anonymous</b> (EDSC Dux '2...)	<b>99.90</b>	<b>Violet</b> (MLC Dux '22)	<b>99.90</b>	<b>Anonymous</b> (School Dux '...)	<b>99.90</b>	<b>Jeffrey</b> (MHS '21)	<b>99.90</b>
<b>Makram</b> (Ilm Dux '21)	<b>99.90</b>	<b>Belle</b> (EDSC Dux '23)	<b>99.85</b>	<b>Cindy</b> (Ruyton '23)	<b>99.85</b>	<b>Deshitha</b> (Haileybury '2...)	<b>99.85</b>	<b>Pranav</b> (MHS '23)	<b>99.85</b>	<b>Anonymous</b> (JMSS '22)	<b>99.85</b>
<b>Abinesh</b> (Nossal '23)	<b>99.80</b>	<b>Chelsea</b> (Hornsby GirL...)	<b>99.80</b>	<b>Sophie W</b> (HT '23)	<b>99.80</b>	<b>Dhruv</b> (Girton Dux '2...)	<b>99.80</b>	<b>Manjot</b> (Wellington D...)	<b>99.80</b>	<b>Hardu</b> (Salesian Dux...)	<b>99.75</b>
<b>Isaac</b> (MHS '23)	<b>99.75</b>	<b>Qiana</b> (JMSS Dux '23)	<b>99.75</b>	<b>Nicholas</b> (HT '22)	<b>99.75</b>	<b>Anonymous</b> (JMSS '22)	<b>99.75</b>	<b>Anupama</b> (Nossal '23)	<b>99.70</b>	<b>Gaia</b> (Mac.Rob '23)	<b>99.70</b>
<b>Will</b> (MHS '23)	<b>99.70</b>	<b>Viran</b> (Girton '23)	<b>99.65</b>	<b>Leroy</b> (MHS '22)	<b>99.65</b>	<b>Tommy</b> (JMSS '22)	<b>99.65</b>	<b>Anonymous</b> (JMSS '22)	<b>99.65</b>	<b>Madelyn</b> (Genazzano ...)	<b>99.60</b>
<b>Melani</b> (Mac.Rob '23)	<b>99.60</b>	<b>Rasith</b> (MHS '23)	<b>99.60</b>	<b>Rohan</b> (HT '23)	<b>99.60</b>	<b>Adya</b> (Mac.Rob '23)	<b>99.55</b>	<b>Moksh</b> (Haileybury '...)	<b>99.50</b>	<b>Aadi</b> (MHS '23)	<b>99.45</b>
<b>Joseph</b> (Caulfield GS...)	<b>99.45</b>	<b>Sydney</b> (Mac.Rob '23)	<b>99.45</b>	<b>Avriel</b> (Ivanhoe '23)	<b>99.40</b>	<b>Danketh</b> (MHS '23)	<b>99.40</b>	<b>Ethan</b> (Haileybury '...)	<b>99.40</b>	<b>Wooshin</b> (MHS '23)	<b>99.40</b>
<b>Will</b> (JMSS '22)	<b>99.40</b>	<b>Sophie J</b> (HT '23)	<b>99.35</b>	<b>Gursimar</b> (MHS '23)	<b>99.30</b>	<b>Justin</b> (Camberwell ...)	<b>99.30</b>	<b>Furqan</b> (Clarendon '2...)	<b>99.30</b>	<b>Tasha</b> (JMSS '21)	<b>99.30</b>
<b>Haoqing</b> (Mac.Rob '23)	<b>99.25</b>	<b>Jacob</b> (King David '2...)	<b>99.25</b>	<b>Kunal</b> (MHS '23)	<b>99.25</b>	<b>Sithuli</b> (Mac.Rob '23)	<b>99.25</b>	<b>Aksharan</b> (Girton '23)	<b>99.15</b>	<b>Ajaay</b> (Emmanuel Du...)	<b>99.15</b>
<b>Angelina</b> (PLC '22)	<b>99.15</b>	<b>Russhil</b> (GWSC '22)	<b>99.15</b>	<b>Evangeline</b> (Mac.Rob '21)	<b>99.15</b>	<b>Angela</b> (Mac.Rob '23)	<b>99.05</b>	<b>Alex</b> (MHS '21)	<b>99.05</b>	<b>Ami</b> (GWSC '23)	<b>99.00</b>
<b>Dhasarathi</b> (MHS '23)	<b>99.00</b>	<b>Nash</b> (MHS '23)	<b>99.00</b>	<b>Kartikay</b> (JMSS '21)	<b>99.00</b>						

**1000+**  
95+ ATARs

**250+**  
98+ ATARs

**100%**  
Student Satisfaction

- Our recent VCE results include dozens of 99.50 + ATAR students and 45 + Study scores, including Raw 50s and Premier's Awards in subjects like Methods, Specialist Maths, Chemistry, Physics, etc.

➤ In our **2024 UCAT program**, we had:

- 🇬🇧 A Median UCAT Score of 3060 (90<sup>th</sup> Percentile),
- 🇬🇧 5 in 10 Contour Students Score Above the 90<sup>th</sup> Percentile (3060 +), and
- 🇬🇧 1 in 10 Contour Students Score Above the 99<sup>th</sup> Percentile (3350 +).
- 🇬🇧 Also, a Contour UCAT student scored the world record UCAT score of 3590 in 2023 – The highest in UCAT history [900, 890, 900, 900].



## 99th Percentile UCAT Results

2023 & 2024 UCAT ANZ Top Scores



### 99th Percentile Analysis



Score Threshold

**3290+**

99th Percentile

Average Students

**1 in 100**

achieve this score

Contour Students

**1 in 6**

17x higher

Student Distribution

99th Percentile



Contour Students 30.7%

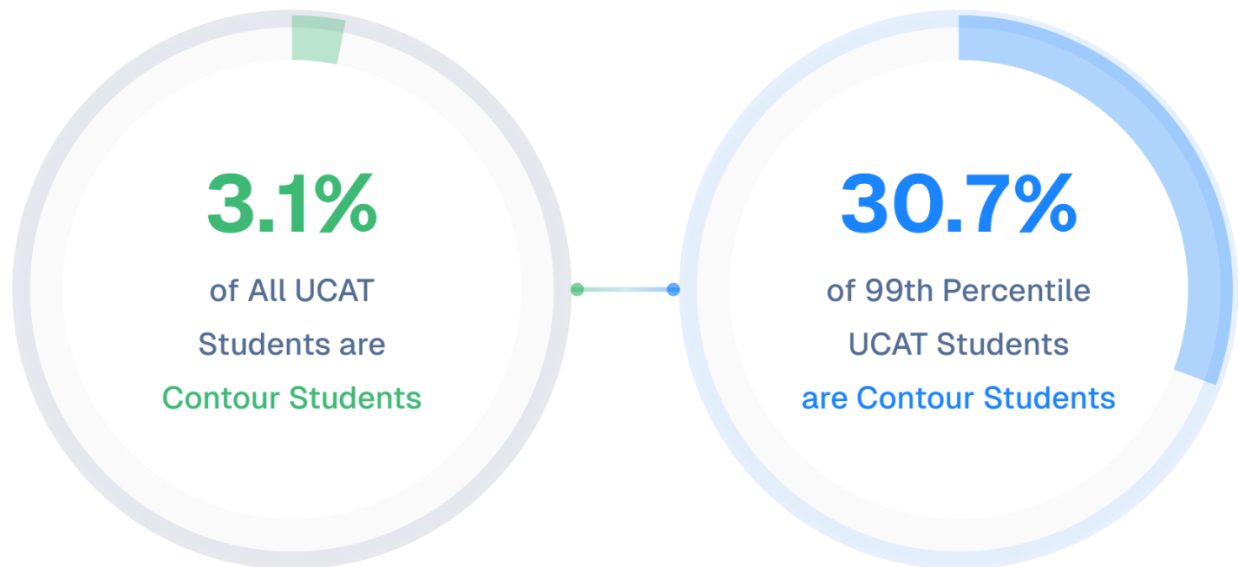
Other Students 69.3%

### Key Insight

Including the **world record** and representing the **top 1%** of all UCAT test-takers in 2023 & 2024

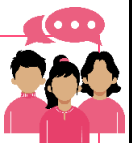
➤ A Cool Stat:

- 🇬🇧 14,000 Students sit the UCAT ANZ Every Year.
- 🇬🇧 That means 140 (1%) score in the 99<sup>th</sup> Percentile (3350 +).
- 🇬🇧 43 of them (almost one-third) were Contour MedPrep Students!



*We've had a fantastic 2024, and now we can't wait to continue supporting you and helping you achieve your potential in 2025 and beyond!*

Discussion: Why is it important to know we have high achievers?





*What do we stand for?*



Discussion: What do you think the word "Contour" stands for?



### Contouring Education



➤ Bad education, which some of us have been victims of, is:

**Boring education.**

**Education that does not teach intuitively.**

**Education that does not work for everybody.**

➤ Contour's mission is and will always be to:

**Reshape Education, One Student at a Time.**

Space for Personal Notes



*What does that actually look like, practically?*

## Core Values



# Core Values



### Student Focused

Making sure the student comes first.



### Empowering Teaching

Helping students achieve their potential through positive reinforcement and encouragement.



### Quality Before Quantity

Having one tutor for every dozen students.



### Friendly Tutors & Staff

Being genuine & outgoing personalities.



### A Study Ecosystem

Providing an arsenal of curated resources to learn & master content.



### Anecdotal Mentorship

Inspiring students through passion, real-life stories and insightful teachings.



### Success Driven

Focusing on high performance & achieving success.



### Intuitive Teaching

Building strong foundations through understanding & intuitive learning, not rote memorisation.



### Welcoming Community

Having collaboration & camaraderie among peers.



### Continuous Support

Providing complimentary support, accessible anytime & anywhere.



### Premium Service

Upholding a standard of excellent teaching, excellent resources & an excellent experience



*But fancy words don't mean anything by themselves!  
We are excited to demonstrate our values through our actions in 2025!*

Space for Personal Notes

## Section B: Contour Ecosystem

### Sub-Section: Learning Resources

#### Contour Resources Structure

Core Resources	Mastery Resources
<ul style="list-style-type: none"> <li>➤ <b>Workbooks:</b> Completed in class each week. <u>Learn</u> the main content!</li> <li>➤ <b>Tests:</b> Completed at the end of every class, <u>Consolidate</u> content in class!</li> <li>➤ <b>Homework (New Structure for 2025):</b> Divided into compulsory and supplementary sections. <u>Consolidate</u> content at home!</li> <li>➤ <b>Contour Check (New for 2025):</b> Before SACs, clearly show the learning objectives needed and related questions. <u>Prepare</u> for <u>SACs</u>!</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Workshops:</b> Completed in the 2-hour workshop sessions every week. <u>Master content</u> - exposure to tricky questions in SACs and Exams!</li> <li>➤ <b>SAC Packs (New Structure for 2025):</b> Provided before SAC for practice. <u>Prepare</u> for <u>SACs</u>!</li> <li>➤ <b>Mock Exams:</b> Run under invigilated conditions to prepare for the final exam! <u>Prepare</u> for the <u>Final Exam</u>!</li> <li>➤ <b>Exam Packs (New Structure for 2025):</b> Provided before the exams for practice. <u>Prepare</u> for the <u>Final Exam</u>!</li> </ul>

#### Subject Specific Resources

- **ContourUDFs:** Custom calculator functions for Mathematica and TI-Nspire to help you shortcut multiple calculator steps for Tech-Active questions, provided for free for both school SACs and exams for VCE Maths subjects.
- **Bound Reference:** A comprehensive guide of all the content in the study design, sorted by topic. Plus, step-by-step walkthroughs, example problems, and guides for using each calculator (TI-Nspire, Mathematica & ClassPad) for VCE Maths subjects.
- **Cheat Sheet:** For Physics, a comprehensive double-sided A3 Physics cheat sheet to take into your SACs and exams.

Space for Personal Notes

**Discussion:** What is the difference between Core and Mastery resources?



## Misconception



*"I can do well without the workshops."*

*Truth: Workshops are crucial in defining your study score! Be sure to never skip them. Attend online or complete in your own time if you can't make a Workshop session.*

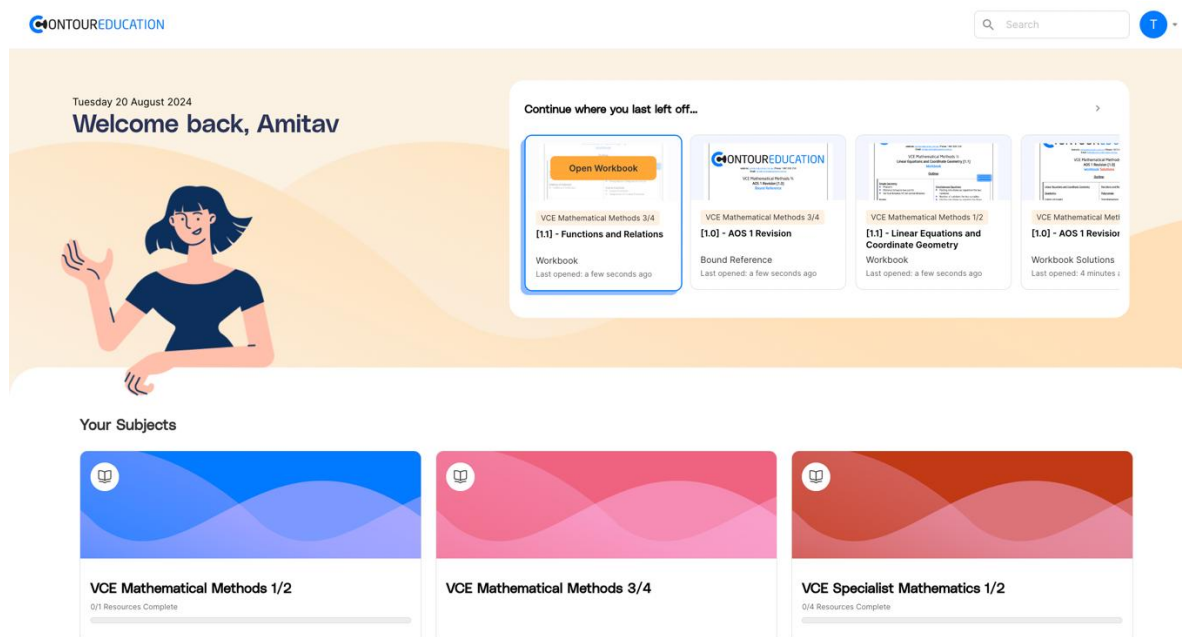
**NOTE:** Workshop will begin from Week 2 onwards (next weekend) covering content from Week 1 (this week).



## Sub-Section: Contour Learning Portal



**Discussion:** How do I access the resources outside of class?

The screenshot shows the Contour Learning Portal interface. At the top, there's a search bar and a user profile icon. Below the header, a welcome message says "Welcome back, Amitav" with a date "Tuesday 20 August 2024". To the right, a section titled "Continue where you last left off..." displays four cards for different VCE Mathematical Methods 3/4 resources: "Open Workbook", "Bound Reference", "Workbook", and "Workbook Solutions". Below this, a section titled "Your Subjects" shows three cards for "VCE Mathematical Methods 1/2", "VCE Mathematical Methods 3/4", and "VCE Specialist Mathematics 1/2".

## Sub-Section: Student Support

Discussion: How do I contact my tutor outside of class?



Discussion: How do I get extra help outside of class?



### Contour Education 1-on-1 Physics Consult

🕒 30 min

#### What is a 1-on-1 Physics Consult?

- A Live 1-on-1 Consultation run by Contour tutors, which is available to you after-schools on weekdays, and all day on weekends.
- Join for a 30-minute 1-on-1 help session, where you can ask any questions, get further support, clarify your doubts, or even just ask for advice or extend yourself.
- Complimentary service for all enrolled Contour students! We genuinely encourage all of you to use this, and sincerely hope you make the most of the opportunity.

#### What to Expect

- One of the Contour Physics tutors will be there with you, 1-on-1, to answer

[Cookie settings](#)

[Report abuse](#)

#### Select a Date & Time

<
November 2024
>

Wednesday, November 27

MON	TUE	WED	THU	FRI	SAT	SUN
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

• times you're available

• 2:00pm

2:30pm

Next

• 3:00pm

• 3:30pm

#### Time zone

🌐 Sydney, Melbourne Time (9:42am) ▼

[Troubleshoot](#)



ohhh makes sense

with probability questions do u recommend writing out the info quickly? i find that if i don't i end up making silly mistakes like this

JO

21:35

yep I would recommend that if it's tripping you up

just like a quick

A B % % type thign



**Pranit P** 10/28/24, 9:44 PM

MCQ 6

- B is a better option because if it's harder to access unemployment benefits people would be even more inclined to find work to be able to have incomes

- Yes that's good

- Hidden unemployment is still spare capacity , it's just not picked up by the statistics

It's people that *do* still want to work but they've just given up finding it

A better distinction is hidden unemployed people are not counted to be within the labour force but underemployed people are



**Pranit P** 10/28/24, 9:54 PM

Individuals that are not unemployed as they have given up looking for work even though they wish to work, can decreasing the rates quoted for unemployment.

In essence they are underutilised as well but not counted in underutilisation data

Space for Personal Notes

## Section C: VCE Biology $\frac{3}{4}$ at Contour



### Biology $\frac{3}{4}$ at Contour

- Biology is a very content-heavy and intense subject at times, so at Contour we have broken it down with a clear course outline to help you succeed and get ahead!

### Unit 3: How do cells maintain life?

- AOS 1: What is the role of nucleic acids and proteins in maintaining life?
- AOS 2: How are biochemical pathways regulated?

### Unit 4: How does life change and respond to challenges?

- AOS 1: How do organisms respond to pathogens?
- AOS 2: How are species related over time?
- AOS 3: How is scientific inquiry used to investigate cellular processes and/or biological change?

### Assessment

- 1 SAC per AOS, weighing a total of 50%
- End of Year External Exam, weighing 50%
- Success in VCE Biology means learning the content ahead of time, learning it in time and in-depth, and then applying that consistently to get great SAC and exam results!

**TIP:** It is super important to be CONSISTENT in your preparations for Biology! Try and set an aim to do some revision, whether its 10-20 minutes EVERY DAY!



### Misconception

*"Biology is a subject that is all about memorisation, nothing else!"*

*TRUTH: Although there is a lot of content that you just have to memorise, almost every topic is connected!*



## Section D: Your Class



### Meet Your Tutor(s)



➤ Tutor Name: \_\_\_\_\_

➤ Preferred Medium of Contact: Discord / Instagram / Facebook / Messenger / Phone / Email

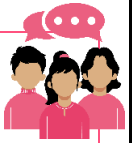
*Now your classmates!*



**Discussion:** Say hi to the classmate next to you! What are their names, and what schools do they attend? Exchange a fun fact about them/their favourite activities/something interesting they did last week.

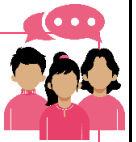


## Section E: Goals and Oath



**Discussion:** How do you feel about Biology and VCE?

- Are you interested in pursuing a career in a biology-related field?
- Are you anxious or nervous about approaching VCE Biology?
- Is this your first VCE subject?



**Discussion:** Why is it important to have a high goal?

### **Question 1**

Write down your aimed study score below.



**REMINDER: I Will...**

- Work hard throughout the year.
- Use the resources available to the best of my abilities.
- Be honest and reflect on my progress.
- Approach my tutor whenever I have any questions, and
- Have a positive outlook on my studies.

Student Signature	
-------------------	--

Space for Personal Notes

## Section F: Post-Class Review

### Reminders for Next Week



- ☒ Next week is also part of the **free headstart**. The time will be the **same** (unless confirmed by us).
- ☒ Look out for emails regarding the Workshop.

*Give us your feedback; your learning is important to us!  
Rip this page and leave it on the table 😊*



Student Name

How did you find the **PACE** of today's class?

1. Way too slow for me!
2. Slightly slower than ideal for me.
3. Just right!
4. Slightly faster than ideal for me.
5. Way too fast! Slow down, please!

How did you find the **DIFFICULTY** of today's class?

1. Way too difficult!
2. Slightly more challenging than ideal for me.
3. Just right!
4. I can handle a more challenging environment.
5. Way too easy for me!

How did you find the **EXPLANATIONS** of concepts and questions during the class?

1. Impossible to understand.
2. Confusing to understand.
3. Adequate to understand.
4. Straightforward to understand.
5. Intuitive to understand.

What should we **START** doing, **STOP** doing, and **CONTINUE** doing in the tutoring sessions?  
Constructive criticism is appreciated - it'll help us improve the classes from next week!

Any additional comments you would like us to know?



Website: [contoureducation.com.au](https://contoureducation.com.au) | Phone: 1800 888 300 | Email: [hello@contoureducation.com.au](mailto:hello@contoureducation.com.au)

VCE Biology  $\frac{3}{4}$

# Free 1-on-1 Support



## Be Sure to Make The Most of These (Free) Services!

- Experienced Contour tutors (45+ raw scores, 99+ ATARs).
- For fully enrolled Contour students with up-to-date fees.
- After school weekdays and all-day weekends.

<u>1-on-1 Video Consults</u>	<u>Text-Based Support</u>
<ul style="list-style-type: none"><li>➤ Book via <a href="https://bit.ly/contour-biology-consult-2025">bit.ly/contour-biology-consult-2025</a> (or QR code below).</li><li>➤ One active booking at a time (must attend before booking the next).</li></ul>	<ul style="list-style-type: none"><li>➤ Message <a href="tel:+61440137387">+61 440 137 387</a> with questions.</li><li>➤ Save the contact as "Contour Biology".</li></ul>

## Booking Link for Consults

[bit.ly/contour-biology-consult-2025](https://bit.ly/contour-biology-consult-2025)



## Number for Text-Based Support

[+61 440 137 387](tel:+61440137387)