

## Section 1:

### #1 (Interview question response):

#### a. Strengths:

- You demonstrate enthusiasm for mathematics.
- You provide specific examples to support your interest.

b. Weaknesses: Main issue: Lack of coherence Your response jumps between different ideas without a clear structure. For instance, you mention Terence Tao and then abruptly shift to discussing your own achievements. This makes your writing feel disjointed and hard to follow.

c. Exemplar: "Mathematics fascinates me due to its infinite possibilities and real-world applications. I admire mathematicians like Terence Tao, whose work on the Green-Tao Theorem demonstrates the subject's depth and complexity."

### #2 (First paragraph of persuasive essay):

#### a. Strengths:

- You introduce the topic of climate change.
- You state your position on systemic changes.

b. Weaknesses: Main issue: Lack of specificity Your opening paragraph lacks concrete details about the climate crisis. Phrases like "great impact on our society" and "many more" are vague and don't effectively convey the urgency of the situation.

c. Exemplar: "Climate change poses an existential threat to our planet, manifesting in increasingly frequent droughts, bushfires, and rising sea levels. To address this crisis, we must prioritise systemic changes that will foster responsibility, encourage collaboration, and pave the way for a sustainable future."

### #3 (Third paragraph of persuasive essay):

#### a. Strengths:

- You attempt to address counterarguments.
- You mention the Paris Agreement, showing awareness of global initiatives.

b. Weaknesses: Main issue: Underdeveloped arguments Your arguments lack depth and supporting evidence. For example, you state that systemic changes will make

people more responsible, but you don't explain how or provide concrete examples of such changes.

c. Exemplar: "Implementing systemic changes, such as carbon pricing or mandatory renewable energy targets, would create a framework for individual and corporate accountability. These measures would align our actions with global commitments like the Paris Agreement, driving us towards meaningful reductions in greenhouse gas emissions."

Actionable task: Rewrite the first paragraph of your persuasive essay, focusing on providing specific examples of climate change impacts and clearly stating your thesis about the importance of systemic changes.

Overall score: 42/50

## Section 2: Revision Guidelines

Interview question: What is your favourite subject and why? My favourite subject is maths because I think it is very interesting and it's very instructive and there are many dynamics within the subject. There are also no limits to mathematics, obviously there are rules but you can explore infinitely. My role model is Terence [Terence] Tao as he is great in all areas of maths and is now specialising in number theory. For example one of his theories was the Green Tao Theorem where he states that the sequence of prime contains arbitrary long progressions. Also mathematics has been a great part of my success as it is my strongest subject and lets me show my skills. For example this year I competed in the mathematics ICAS and got high distinction and I was one question off of full marks. Recently I also competed in SEAMO another maths competition just with harder questions but we're given more time. You can see that I have success in maths and that my interest in it is undeniable so that's why my favourite subject is maths.

Persuasive writing: Write a persuasive essay arguing whether individual actions or systemic changes are more crucial in addressing climate change.

#1 In our world we're facing an environmental crisis, climate change has been causing a great impact on our society, droughts, bushfires and many more. We should have systemic changes because it will make people more responsible, help people collaborate and lead our world to a better future. ~~First let's look at the problem, right now there is a small percentage of people cleaning their rubbish and owning petrol cars.~~ [To address this crisis, we must acknowledge that only a small percentage of people are actively reducing their waste and transitioning away from petrol vehicles.] Take India for example. There are many rivers there that are polluted and dirty. This is because they're not putting their rubbish away or are dumping them into their rivers. Now is the time to

stop this. Every year we experience more disasters due to things like global warming and rising sea levels. The ozone layer is not going to save us from global warming, it's just protecting us from the sun rays that would scorch the earth. We need action and making humans do some simple tasks every day should be better than worse. #2 If we have systemic changes it will make the people of this world more responsible. Using systemic changes might even get us down to the Paris agreement of global warming. This will make people responsible as it is law enforcing to do what the new law would say about climate change. Making people more responsible as they have to prepare to do it and not allow them to just leave their rubbish on the ground. These systemic changes will impact the climate as pollution won't be as much as before and setting these ground rules could be a life saver for generations upon generations after us. #3 This can also make people more collaborative as there might be some things that require collaborative work in cleaning up cities. People with all different personalities can collaborate with each other and learn from each other and the individuals learn how to collaborate with different types of people. Students can also be taught about climate change from when they are young so they can help when they grow up. This will be essential to young kids as it can help learn about the dangers of the world and what they can do to help from a young age. In the future we can develop new ways to counter this problem as technology is growing at a rapid rate. We can be both creative and serious about climate change and maybe we can make it a better future, who knows there are endless possibilities. Technology may become found worldwide and even places with the dirtiest rivers may be used for energy. Anything could happen with technology. It might happen recently or we may have to wait till the time is right for our ~~civilization~~ [civilisation] to thrive in the climate aspect of life.