

## To ace IGCSE Mathematics & Physics exams

Everyone would wish to get good scores on their exams, right? For those who are struggling with academic pressure, I am willing to help you guys with useful tips and advice on these subjects. As an A\* student, advice will be provided as much as I could to help you get better results. You can also be graded A\* ;>>

### Advices on maths:

1. Memorize all **the formulae**, and it is important to differentiate between them (e.g. on what kind of problems you should use the formula to solve)
2. **Solve problems** repeatedly, which is basically doing papers over and over again. Or the problems given in your workbooks. Check your answers to make sure you have understood them fully and if there happens to occur any mistakes, you can always get help from your teacher or your classmates.
3. Be aware of **decimal numbers**. One of the main causes of losing points on paper is not rounding them up correctly. So it is important to read all questions and instructions carefully.
4. Another thing to remember is NOT to round up the numbers until the last solution. If you work with the **exact number** up until your last operation, the answer is more likely to be correct.
5. No matter how sure you are, remember to **double check** your answers carefully, otherwise there will be even a slight mistake, causing a point loss.

**Paper:** You will be examined with two papers.

Paper 2 consists of 70 points, done in 1 hour and 30 minutes.

[IGCSE Mathematics 0580/21 Paper 2 \(Extended\) May/Jun 2021 \(cambridgeinternational.org\)](https://www.cambridgeinternational.org/0580/21/Paper2/Extended/MayJun2021)

Paper 4 consists of 130 points, done in 2 hours and 30 minutes.

[IGCSE Mathematics 0580/41 Paper 4 \(Extended\) May/Jun 21 \(cambridgeinternational.org\)](https://www.cambridgeinternational.org/0580/41/Paper4/Extended/MayJun21)

### Advices on physics /Co-ordinated science/:

1. **Key terms**. Memorizing them helps with questions asking you to define the terms. It is also important to understand their meaning, instead of just memorizing word by word.
2. **The formula**. Print out a formula sheet or make one of your own. And every time you solve problems, take a look at them if you cannot remember. Constantly looking at them will eventually help you to memorize them.
3. **Websites** can also help you get a simple understanding of the studies. These are the ones I used for preparation.
  - a. [Physics & Maths Tutor \(physicsandmathstutor.com\)](https://www.physicsandmathstutor.com)
  - b. [Revision Notes, Past Papers & Topic Questions | Save My Exams](#)
4. **Youtube** is a suitable option to get a visual demonstration of physics, if figures or diagrams are not understandable. Many youtubers out there can also give explanations very well.

- a. <https://www.youtube.com/@Cognitoedu> -youtube channel that gives understanding about IGCSE science.
  - b. <https://www.youtube.com/@TheOrganicChemistryTutor>
  - c. Or you can go search "IGCSE Physics" and find various videos.
5. Be aware of **SI units**. Some questions give different units to make it more confusing. And you can actually guess what you are going to solve from the numerical data or units given. (E.g. m/s can be solved from m and s)
  6. Read **the workbooks** carefully, as it helps with explanation questions. And ask for further explanations from your teacher or classmates.

**Paper:** There are 3 papers for co-ordinated science.

- Paper 2 is Multiple choice, consisting of 40 questions. My advice for you here is that you should first eliminate 2 obviously wrong answers and work on the remaining two for the correct answer.
- Paper 4 is Theory paper, consisting of 120 points. It requires you to answer using full sentences or certain keywords. And calculations should be fully given.
- Paper 6 is Practical, consisting of 60 points. You should be cautious of the numbers on readings.

Additionally, you can always look up the **mark scheme** answers to check yourself or to get to know how you should answer some questions. In other words, being familiar with mark schemes can sometimes be an advantage. Always **ask your teacher** without worrying too much, if you are having difficulties. Because they are always open to give you proper explanations and offer help. You can try the "**Feynman technique**" while studying, which is basically explaining the topic out loud to yourself as if teaching a child without any prior knowledge (This method helped me memorize answers in a short period). Most importantly, try to have good **time management** and make sure you rest well and take good care of your health during the exam period. Good luck :>>

Contact information if you would like to ☐

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