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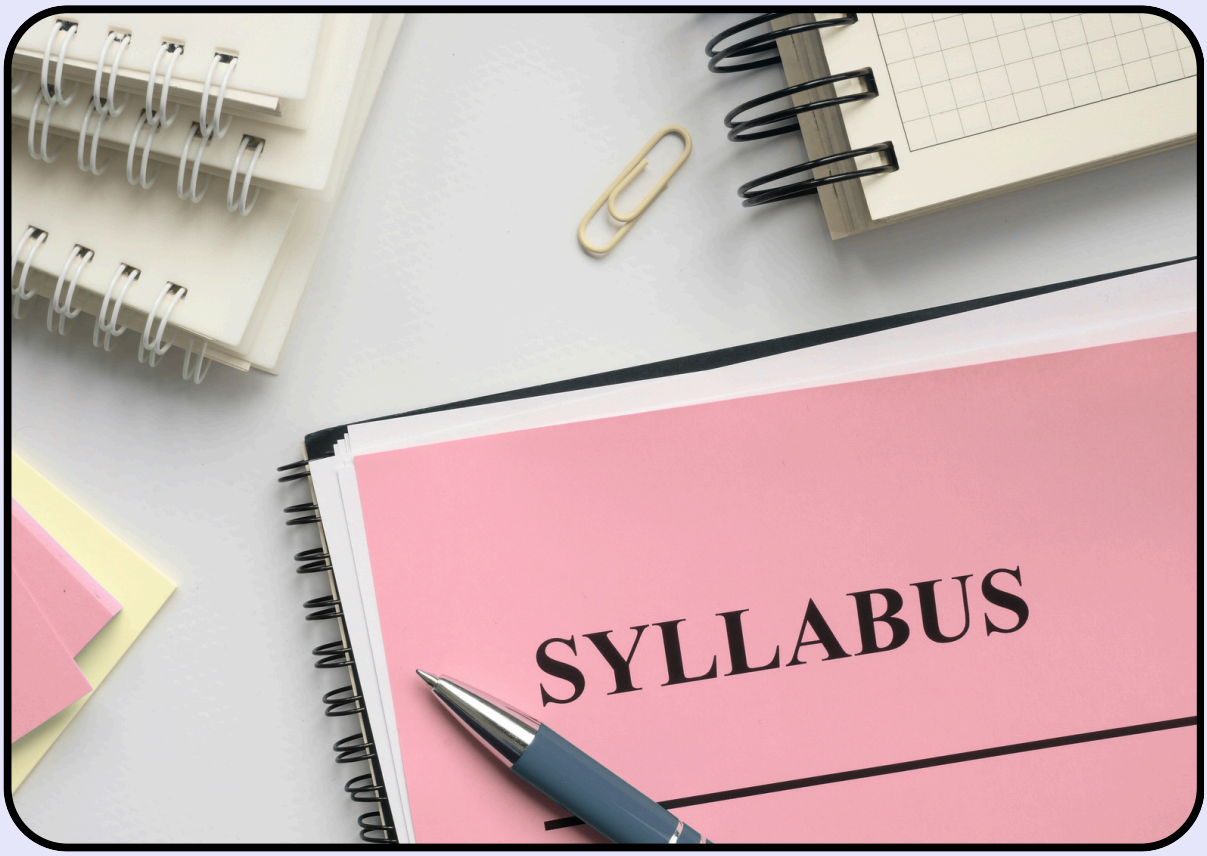
GCSE STUDY PLAN
MATHS & PHYSICS



A step-by-step guide
for year 11 students to achieve exam
success by an expert teacher

BY ZAINAB ABID

Living in the information age and still struggling

We live in a time when we are provided with heaps of information on our fingertips yet we still struggle so much on taking in that information and benefitting from it in the correct way.

Important tip

Being selective with the resources and help we receive is super important. Although there's tonnes of resources available, I've listed 5 of the best ones that along with some guided practice will help you to excel at GCSE.

These resources are fantastic however using them in the correct way is even more important. This means sticking to a plan on when you will cover what as well as re-trying and getting help on topics and you've struggled on.

In this guide and planner I will not only direct you to the best Maths and Science resources online but will show you how you can best use these resources. Secondary school students tend not to prefer self paced study so I would recommend a parent/ guardian/ tutor to help them to get started.

Welcome to your Study Plan

The following planner is designed to help you stay on track with your GCSE preparation.
Customise it to suit your study
The recommended study time for new year 11 students is 2 hours per day but can vary

Academic terms

Autumn term - Sept - December

Spring term - Jan to April

Summer term - May - June (Revision and Exams)

Note: This is a brief overview of a suggested study plan to give you structure and direction throughout the year. It's not a strict guide—topics and timelines may vary depending on your exam board and your current progress.

For tailored and specific planning, **book a free consultation** with an expert tutor who can help build a personalised roadmap to achieve your best results.

BOOK NOW >

Autumn Term (Sept-Dec):

Goal:

Finish Core Content + Identify Weaknesses

Maths Topics:

- Number skills (Decimals, Percentages, Ratios)
- Algebra basics (Expanding, Factorising, Solving equations)
- Graphs (Linear, Quadratic)
- Geometry basics (Angles, Perimeter/Area)
- Probability

Science Topics:

- Biology: Cell Biology, Organisation, Infection & Response
- Chemistry: Atomic Structure, Bonding, States of Matter
- Physics: Energy, Electricity

Goals:

- Finish 70% of curriculum
- Weekly low-stakes quizzes
- 1 full topic exam every 2 weeks

Tasks:

- 🧠 3 hrs/week per subject
- 📚 Make summary notes or flashcards
- 🧪 Practicals recall & flashcard prep

We also have a twice weekly zoom class for each of these subjects as well as a catch up call weekly (small group capped to 6 students per class).

Spring Term (Jan–Mar)

Master Difficult Topics + Start Practice Papers

Maths Topics:

- Advanced Algebra (Inequalities, Rearranging formulae)
- Geometry (Transformations, Trigonometry)
- Statistics
- Higher tier: Surds, Vectors

Science Topics:

- Biology: Bioenergetics, Homeostasis, Inheritance
- Chemistry: Chemical Reactions, Rates, Organic Chemistry
- Physics: Atomic structure, Waves, Forces

Goals:

- Complete entire spec
- 1 practice paper per week
- Target weak topics from Autumn

Tasks:

- 📝 Revise with past paper questions
- 🗂️ Use revision checklists to track topics
- 🧠 Group revision / peer teaching sessions

We also have a twice weekly zoom class for each of these subjects as well as a catch up call weekly (small group capped to 6 students per class).

Summer Term (Apr–June)

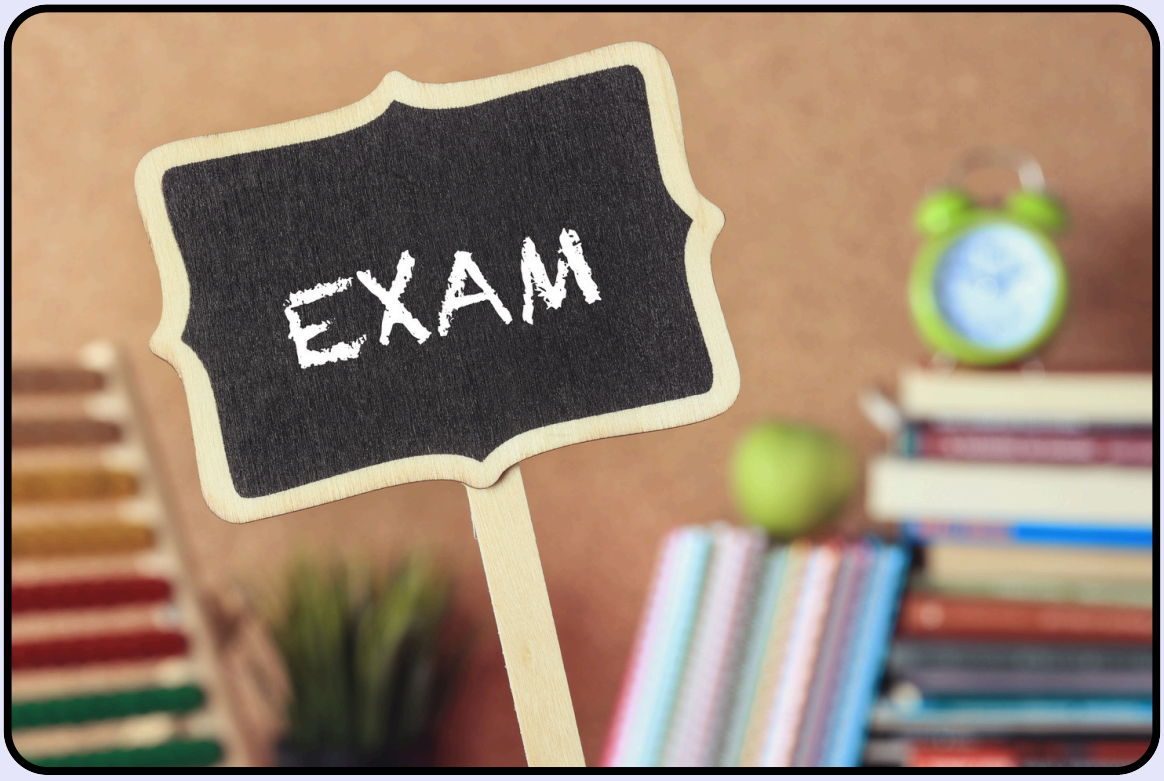
Full Revision + Exam Technique

Focus:

- Exam skills: time management, command words, structure
- Past papers + mark schemes
- Spaced repetition & retrieval practice

Weekly Breakdown:

- 📅 1 full paper in exam conditions per subject
- 🧠 2 hrs content revision (prioritised by mock performance)
- 📊 Mistake analysis sheet after every test
- 🗂️ Use revision checklists to track topics (You can message me for these)
- 🧠 Group revision / peer teaching sessions



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Study Advice

1. Firstly it is super important to create some sort of timetable/ plan for your revision, a schedule is super important which tells you what subject and topic you will study at what time.

2. The environment you create while studying is also extremely important and has a huge impact on the quality of your revision. It's also very important to change your environment frequently so studying in libraries, coffee shops and the like is always a good idea.

3. The method of study also matters a lot, passive revision (such as note-taking or watching videos) can sometimes be a complete waste of your time and it's important to mix things up and use more active forms of revision such as questions, mind maps and past papers.

Study Timetable

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9:00–10:00 AM							
10:15–11:15 AM							
11:30–12:30 PM							
1:30–2:30 PM							
2:45–3:45 PM							
4:00–5:00 PM							
6:00–7:00 PM							
7.15-8.15PM							
8.30-9.30PM							

Weekly Goals

Here's a Weekly Goals List designed for GCSE Maths & Science students.

Week of: _____

Top 3 Academic Goals:

_____

_____

_____

🟦 Maths Goals:

- Revise Topic: _____ ☐
- Complete ___ practice questions (e.g. 20 algebra questions) ☐
- Watch ___ tutorial videos (e.g. MathsGenie or Corbett) ☐
- Complete ___ past paper questions ☐
- Mark and correct all mistakes ☐

🔬 Science Goals (Bio/Chem/Phys):

- Revise Topic: _____ ☐
- Memorise ___ key facts / equations ☐
- Review ___ required practical(s) ☐
- Do ___ Physics and Maths tutor/Bitesize questions ☐
- Complete ___ exam-style questions ☐

🧠 Study Skills Goals:

- Use flashcards / mind maps for ___ topic(s) ☐
- Do one retrieval practice session ☐
- Reflect on this week's strengths & struggles (journal) ☐

🚦 Progress Check:

I felt confident in: _____

I struggled with: _____

My plan to improve next week: _____

Top revision tips

1. Set **SMART** Goals
Break your revision into manageable goals. Make them Specific, Measurable, Achievable, Relevant, and Time-bound.

2. Use Active Recall & Spaced Repetition
Use flashcards (e.g. Anki or Quizlet) to regularly test yourself. Space out revision over weeks for better retention.

3. Create a Study Schedule
Plan 45-minute focused sessions with 5-10 minute breaks. Use timers (like Pomodoro apps) to stay on track. I also have a template for a timetable you.

4. Teach What You Learn
Explaining a topic to a friend or even out loud helps reinforce your understanding.

5. Practice Past Papers
Familiarise yourself with question wording, structure, and common topics. Always mark your work and learn from mistakes.

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LINKS TO THE BEST FREE ONLINE RESOURCES FOR MATHS

1. ## Hegarty Maths

Hegarty Maths is great for getting content explained to you in the best and clearest way. They have tonnes of video explanations and examples.

2. ## Corbett Maths

Corbett Maths is a brilliant website which is a all in one package of topic videos, questions and answers separated by topic as well as past papers

3. ## Maths Genie

Maths Genie is a website where you have topic based revision notes and many exam questions.

> Using your resources wisely is the key to growth which opens up success. Unfortunately most don't realise this and the door of opportunity stays closed.

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LINKS TO THE BEST FREE ONLINE RESOURCES FOR SCIENCE

1. Free science lessons

This is a great supplementary resource with lots of short video explanations

2. Physics and Maths tutor

This website has some amazing notes, flashcards and also practice papers

3. BBC bitesize

This is an amazing resource for understanding a topic in more depth and also having a lot of small quizzes to check your understanding.

Final Tips

Start NOW, Eat that Frog – this saying is that start with the hardest task first.

Ask for help—don't wait until you feel lost.

Balance revision with rest, food, and fresh air.

Believe in yourself. You've got this!

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Conclusion and Next Steps

I hope that this short guide and study plan provided benefit for you and your child. It's very important to really work hard and make good use of both your time and the resources available at GCSE.

These years are extremely important for your child to provide a solid foundation for their future. Implementing what you have read and making good use of the sites i've mentioned are very important. There are also schemes available for year 10/11. If you are interested in enrolling your child onto them please contact me on my email, facebook, instagram or phone number.

thank you!

Book a call with me

now by clicking the button below:

BOOK NOW >

Email: educatecloud.online@gmail.com

Phone number: + 44 7365275339

Facebook: EducateCloud

Instagram: educatecloud.online