Achieving a 7+ in Maths

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- Achieving a 7+ in Maths is a tremendous achievement, one that only about 16% of the UK population will gain

- Achieving a 7+ in maths will open doors to opportunities throughout your future life

- In Toynbee, this percentage has been roughly 20% in the past few years and this year we increased this to **22%.** We are confident that we can increase this proportion considerably this year

- Everyone in this room has the potential to achieve this

  ……if they really want it……

- Be prepared to put in the effort, to put in the work…

Steps to success – a 4-fold plan of action

1. In lesson

- Arrive on time
    - ‘Do Now’ task = key knowledge points secured
- Follow methods shown
    - Workings count – we show the *best* workings to get the *most* marks
- Listen
    - Actively *LISTEN* and follow explanations, don’t just let words wash over you
- Use initiative
    - Don’t wait to be told, take extra notes, ask questions. Only *YOU* know what *YOU* understand, ask if you don’t!
- Make the most of the time
    - You have 8 hours a week where you *MUST* study maths. Use this time productively, and you will remember skills for longer, so this will make your revision easier

Steps to success – a 4-fold plan of action

2. At Home

- Sparx
    - Secures current learning but also contributes towards 'Retention of Knowledge over time' = revision.
    - 100% each week is a *MINIMUM* (boost topics / independent learning for extra)
- Ongoing revision NOW
    - GCSE maths – accumulated knowledge and a *HUGE* number of topics….

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GCSE Higher Tier Checklist

AQA

Corbett maths

- Adding Fractions - Video 133
- Multiplying Fractions - Video 142
- Dividing Fractions - Video 134
- Reciprocal - Video 145
- Decimals - Video 90, 91, 92, 93, 94
- Use of a Calculator - Video 352
- Estimation - Video 215
- Best Buys - Video 210
- Currency - Video 214a
- Conversion Graphs - Video 151, 152
- LCM/HCF - Videos 218, 219
- Product of Primes - Videos 223, 224
- Indices - Videos 172, 174
- Indices (fractional/negative) - Videos 173, 175
- Standard Form - Videos 300, 301, 302, 303
- Percentages of Amounts - Videos 234, 235, 238
- Percentage change - Video 233
- Simple Interest - Video 236a
- Compound Interest - Video 236
- Reverse Percentages - Video 240
- Recurring Decimals to Fractions - Video 96
- Ratio - Videos 270, 271, 271a, 271b, 271c
- Direct Proportion - Video 254
- Inverse Proportion - Video 255
- Proportional Graphs - Video 255b
- Proportion (application) - Video 255c
- Limits of Accuracy - Videos 183, 184
- Surds - Videos 305, 306, 307, 308
- Product Rule for Counting - Video 383
- Error Intervals - Video 377, 280

- Collecting Like Terms - Video 9
- Expanding Brackets - Videos 13, 14, 15
- Factorising - Video 117
- Factorising Quadratics - Videos 118, 119, 120, 119a
- Algebraic Fractions - Videos 21, 22, 23, 24
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- Substitution - Video 20
- Equations - Videos 110, 113, 114, 115
- Changing the Subject - Videos 7, 8
- Inequalities - Videos 177, 178, 179
- Inequalities (Regions) - Video 182
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- Linear Graphs - Videos 191, 186, 189, 194
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- Non-linear Simultaneous Equations - Video 298
- Graphical Simultaneous Equations - Video 297

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- Angles in Polygons - Video 32
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- Circumference - Video 60
- Area of a Circle - Video 40
- Arc Length - Video 58
- Area of a Sector - Video 48
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- Volume of Cone/Pyramid/Sphere - Videos 359-361
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- Column Vectors - Video 353a
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Steps to success – a 4-fold plan of action

2. At Home

- Sparx
    - Secures current learning but also contributes towards 'Retention of Knowledge over time' = revision.
    - 100% each week is a *MINIMUM* (boost topics / independent learning for extra)
- Ongoing revision NOW
    - GCSE maths – accumulated knowledge and a *HUGE* number of topics….
    - Identify your topics to revise and start addressing issues *now*
    - *Revision in maths = PRACTICE*
    - Up to Christmas, revision = securing key skills
    - Use Topic Tests and feedback sheets from Year 10 Mixed Topic Assessments
    - Use the Corbett sheet to highlight your areas of focus and keep track of revision
    - Use Corbettmaths online textbook to give practice on knowledge points
    - Short, frequent sessions most effective

- Corbettmaths – Videos, worksheets, 5-a-day and much more

Steps to success – a 4-fold plan of action

3. GCSE paper practice

- Practice Paper Programme
    - After Christmas, weekly homework = past paper
    - Revision = application of skills
    - Attack with *intent* = use revision tools to help answer questions for the first few weeks
    - Create a chat group with friends to tackle questions together
    - Try to improve your mark each week, *persistence* and *resilience*
- Assessments / Mocks
    - Apply a 'Can Do' attitude – it's supposed to be challenging
    - Look for the maths you *CAN DO* within the question, what maths is the question requiring you to use?
    - Consider timing – 1 mark = 1 minute
    - CHECK YOUR WORKINGS AND ANSWERS

Steps to success – a 4-fold plan of action

4. In school support

- Your Teacher
    - They want your best outcome for you too – use them!
    - Speak to after class / before school / after school / whenever but COMMUNICATE!
    - Follow advice given. It's coming from years of experience….
- Revision / intervention sessions
    - Take advantage of everything that is offered
    - Use this time productively – you don't get marks at GCSE for attendance of sessions

And finally…..

- You now have approximately 24 weeks of learning left. Consider your own Year 10 Summer assessment.
- Consider now what 24 extra marks could do to your grade in that assessment….
- Now consider what 48 extra marks could do to your grade…..
- EVERYONE in here can secure ***at least*** one extra mark a week by following the 4 step plan to success

…ONE MORE MARK CAN MAKE ALL THE DIFFERENCE….