

$\sqrt{-1}$  

**Math**

Google  
classroom code  
tbdb5z7

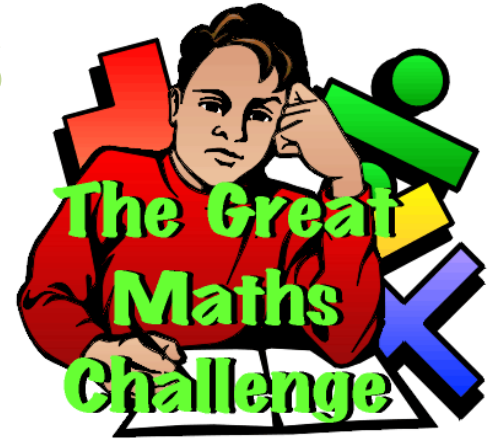
WJEC AS & A Level  
Mathematics

Mr Tinkler

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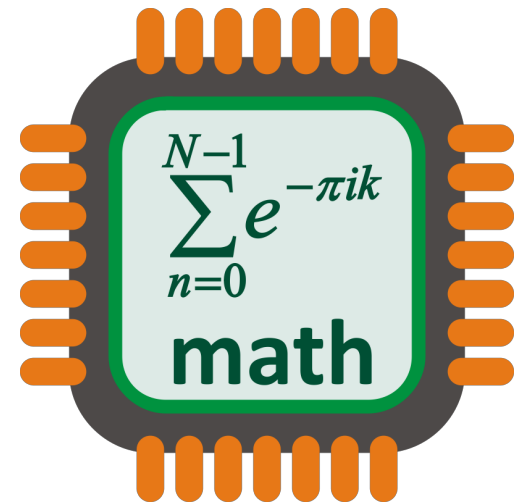
# Basic Requirements

- 99-100% Attendance
- Ideally: A-A\* in both GCSEs
- Essential: Higher Tier Maths
- Problem Solving skills (Numeracy type Q)
- Independent learning-regular homework
- Don't forget your calculator!
- This is a new(ish) course!!! (3<sup>rd</sup> year)



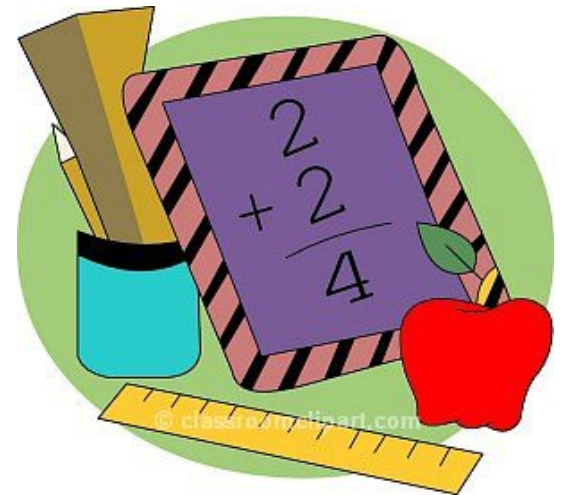
# Topics covered From GCSE

- **Factorising Quadratics** eg  $3x^2 + 7x - 2$
- Surds
- Substituting
- Rearranging formulae
- Simultaneous Equations
- Sine/Cosine Rule
- Trigonometric Graphs
- Transformation of Graphs  $f(x+1)$
- Distance, Speed & Time
- Probability rules inc. Tree Diagrams



# Topics Introduced in Additional Maths (Not essential)

- Differentiation
- Integration
- Completing the square
- Min & Max values
- Factor theorem
- Coordinate geometry
- Equations of tangents



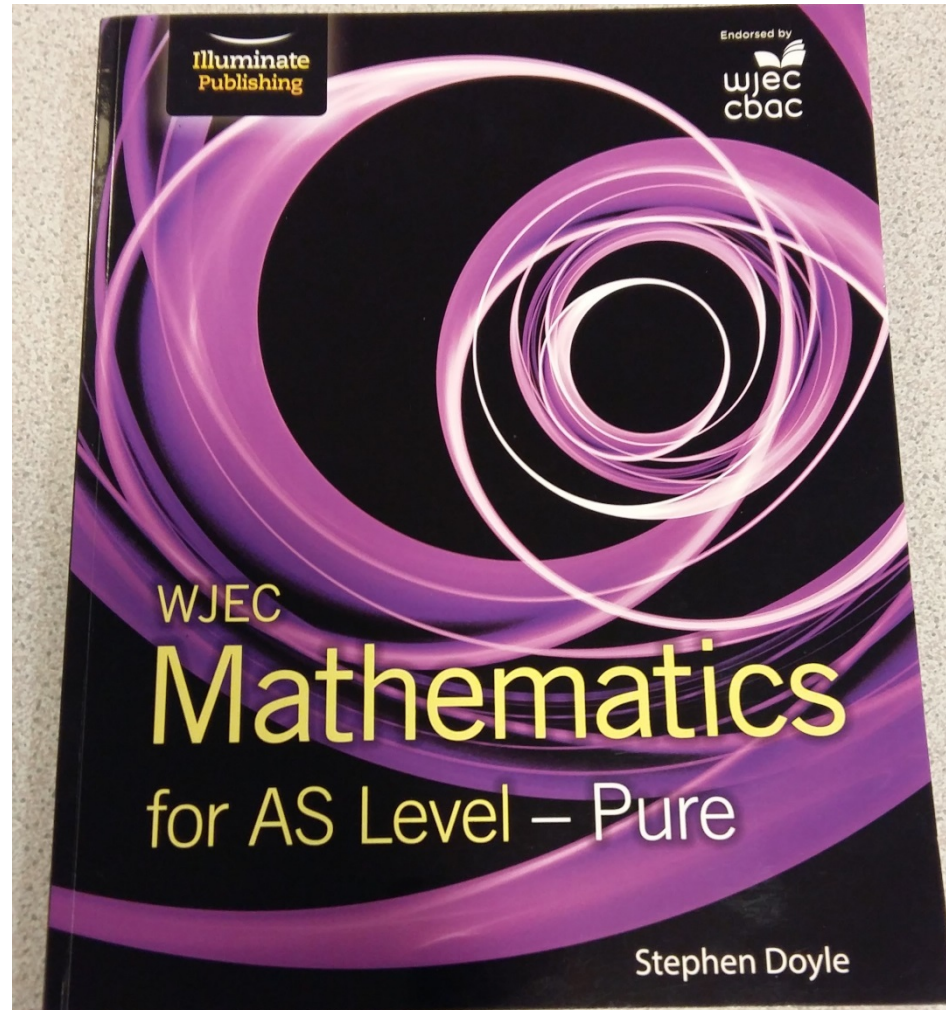
# YEAR 13 DATA 2017 - 2019

Add math s	GCSE math s	GCS E Num	ALPS Y13	U1/15 0 UMS	U2/90 UMS	AS Grad e	U3/21 0 UMS	U4/15 0 UMS	A lev Grad e
D	*	*	B	150	75	A	149	105	B
M	*	*	A	143	86	A	174	122	A
D	*	*	B	150	84	A	205	132	A*
D	*	A	A*/A	133	72	A	173	125	A
M	*	*	A	126	64	B	164	96	B
P	*	*	A	123	62	B	147	111	B
U	*	A	B	100	50	C	92	20	E
D	*	*	A	129	84	A	166	125	A
D	*	*	B	106	68	B	116	58	D
P	A	A	B/C	121	53	B	149	80	C
D	*	*	A	121	76	A	184	118	A
M	A	*	B	94	50	C	99	60	D
P	*	*	B	139	86	A	149	88	B
D	*	*	A*/A	126	90	A	209	131	A*
D	*	*	A*/A	150	90	A	210	143	A*
M	*	*	B/C	125	62	B	113	83	C
D	*	A	A	131	63	A	168	85	B
D	*	A	A	116	62	B	143	85	C
D	*	*	B	134	67	A	180	88	B
P	A	A	B/C	118	63	B	158	107	B
D	*	*	B	150	84	A	193	118	A
x	B	B	C	56	44	E	65	12	U
x	A	B	B	94	50	C	177	109	A
M	A	B	B/C	102	45	C	122	45	D
x	B	A		131	57	B	147	70	C
P	A	B	B/C	82	41	D	67	8	U
U	A	A	B	98	53	C	92	20	E
U	*	A	A	108	54	C	155	116	A

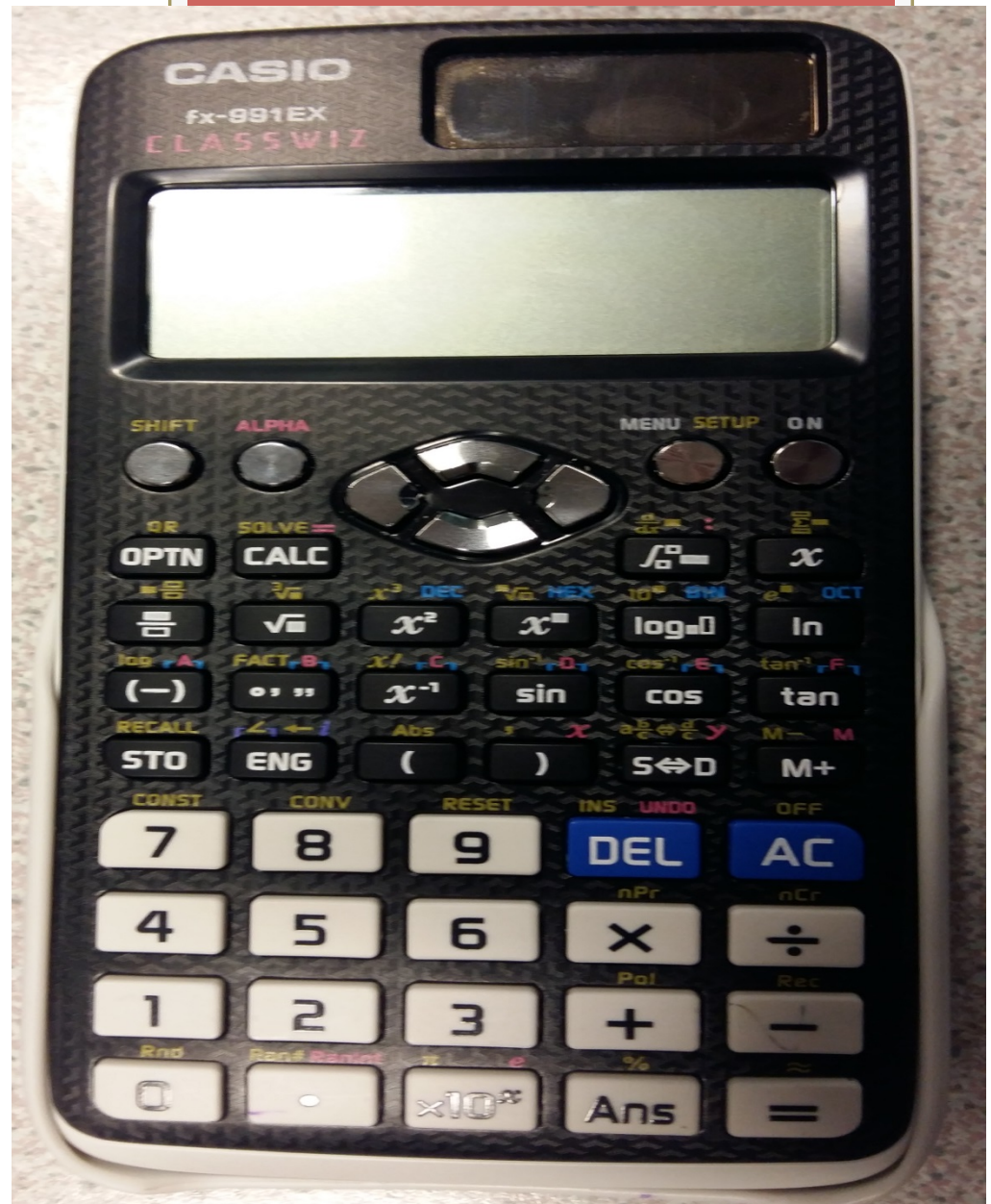
# Examinations

- Y12: 2 exam papers
- Pure Mathematics 25% of course 120 marks 2hrs 30mins
- Applied Mathematics 15% Statistics 40 marks, Mechanics 35 marks 1hour 45 mins
- Y13: 2 exam papers
- Pure Mathematics 35% 120 marks 2hrs 30 mins
- Applied Mathematics 25% Statistics 40 marks, Diff eqns, numerical methods & Mechanics 35 marks
- So each class will have  $\geq 2$  teachers (time-table)
- Regular assessments throughout the year
- No coursework or controlled assessments
- Previous course first examined in 2005
- These are the grade boundaries from 2019
- **GCSE 21% = C, A Level 4% = C (these will increase)**
- **51% = A, 65% = A**
- **68% = A\*, 75% = A\***
- We started teaching this syllabus in Sept 2017 but have plenty of resources.

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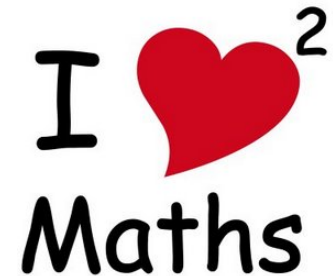


# Casio Fx-991EX





# Why you should opt for Maths @ St Joseph's!



- Excellent November 2019 results GCSE = 65% C-A\* so far
  - 2019 A'level = 36% A-A\*
  - Mode grade of A in 14 of past 17 years
  - Mode grade in Current Year 13 = A
  - We had the highest achieving pupil in the whole of Wales at A Level (a few years ago)
  - Experienced team of teachers:
    - including 2 of 20+ years,
  - Mr Tinkler has been an A Level examiner for WJEC for 10 years
  - Sixth form students say they enjoy the challenge and instant feedback from assignments (after a few months)
  - You have questions on google classroom to practice over the summer holidays if you register or see Mr Tinkler.
- GOOGLE CLASSROOM CODE: **tbdb5z7**
- Lesson 5 in school revision post Christmas (pupils do their own work)
  - There will be an assessment the end of the first fortnight
  - Further assessments throughout Y12 and Y13