The Young Mathematician's Programme

For 10–15 year olds working 2–3+ years ahead. 10 units · 60 topics · 240 structured lessons.

UNIT	TITLE	UK EQUIVALENT
1	Patterns & Algebraic Thinking	GCSE Higher / AS
2	Linear Functions & Graphs	GCSE Higher / AS
3	Sequences & Series	AS / A2 Level
4	Quadratic Functions	GCSE Higher / AS
5	Transformations of Functions	AS / A2 Level
6	Polynomials & Rational Functions	A2 / Further Maths
7	Exponentials & Logarithms	AS / A2 Level
8	Trigonometry & Circular Functions	A2 Level
9	Systems, Inequalities & Optimisation	AS / A2 Level
10	Introduction to Calculus	A2 / Further Maths

EVERY UNIT
6 topics
Each topic: Lesson · Practice A · Practice B · Homework
Timed unit assessment

UK-MAPPED
Mapped to GCSE Higher, AS, A2 and some Further Mathematics content

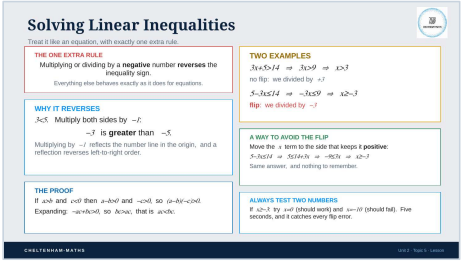
A SCHOOL-READY ALTERNATIVE
Structured, tracked, self-paced on Teachable
Challenge provided — no extra planning for the class teacher
~2 academic years

Every Topic, Four Parts

Example: Unit 2 · Topic 5 — Linear Inequalities & Regions

1 LESSON

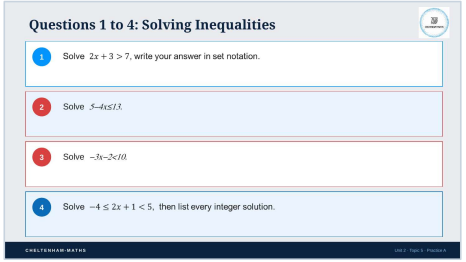
Teach



- ~4 short video explanations
- Worked examples
- “Your turn” questions to check understanding

2 PRACTICE A

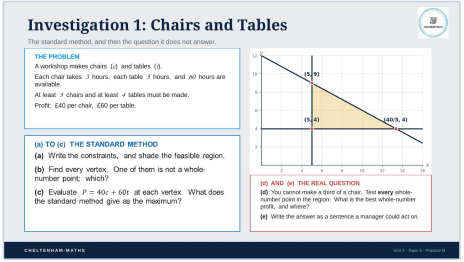
Secure



- Straightforward guided practice
- Full method & answers

3 PRACTICE B

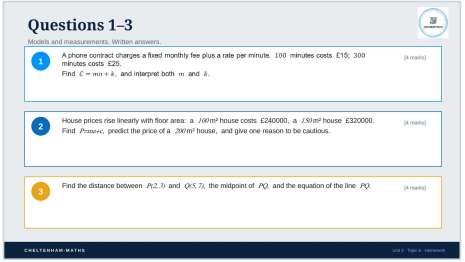
Stretch



- Exploratory, challenging investigations
- e.g. linear programming
- Challenge and research style questions

4 HOMEWORK

Consolidate



- Mixed, marked problem set
- Exam-style & proof questions
- Due before the next topic