

Teacher Script — “Deconstructing Math: Axioms, Proofs, and the LOGIC of Knowledge” (60-Minute Lesson)

Deconstructing Math: Axioms, Proofs, and the LOGIC of Knowledge (TOK Focus)

Duration: 60 minutes

Outcomes: Students will (1) use precise vocabulary for mathematical justification, (2) apply four proof styles, (3) evaluate claims with the **LOGIC** checklist, and (4) write Exhibition and Essay text with scoped, ethically sound conclusions.

Materials and Setup

- Projector/board; visible timer.
- Handouts: student worksheet frames for **LOGIC** and proof types.
- On the board (keep visible all lesson):
 - **Core terms:** Axioms, Definitions, Theorem, Conjecture, Proof, Counterexample, Necessary vs Sufficient, Abstraction, Model.
 - **Proof engines:** Direct • Contrapositive • Contradiction • Induction.
 - **Checklist: L O G I C** = Language • Outline • Ground • Inference • Counterexample/Constraints.

Why this matters for TOK Essay/Exhibition (brief): Students must name methods and limits precisely to argue “what counts as good evidence” and to scope claims correctly.

0–4 min — Hook: “Certain... but how?”

Say (verbatim):

“Mathematics feels certain, but that certainty is built, not assumed. Today you will

Tok Trending Math Worksheet 2025

Jeremy Kahn



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Mastering AI Jeremy Kahn, 2024-08-01 An urgent book on generative artificial intelligence exploring the risk and benefits looming in this seminal moment Easily the best exploration to date on the perils and promise of AI ASHLEE VANCE author of When the Heavens Went on Sale Mastering AI is a must read It s hard to put down BETHANY McLEAN coauthor of The Smartest Guys in the Room and The Big Fail A timely and urgent exploration of AI s dizzying acceleration BRAD STONE author of The Everything Store The debut of ChatGPT on November 30th was a watershed moment in the history of technology We stand on the threshold of a new age one where content of all kinds even software itself will be conjured seemingly from thin air with simple conversation In a culture fraught with misinformation Mastering AI pierces through the thicket of exaggerated claims explaining how we arrived at this moment and mapping the likely long term impacts on business economics culture and society this potent technology will have This book will serve as a guide to those dangers as well as highlighting the technology s transformative potential and will pinpoint concrete steps that should be taken to regulate generative AI

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