

AI-resistant maths assessment checklist

Assessment validity, evidence design and reproducible AI testing

curriq | Assessment-design and reproducible testing record

Verified 3 August 2026. The 2026 HSC uses the applicable 2017 mathematics syllabus; the 2024 syllabuses are first examined in the 2027 HSC. Verify current sources and local requirements before use.

Claim boundary

No take-home question is permanently AI-proof. This checklist helps strengthen the mathematical evidence available to a teacher; it does not detect AI use, prove authorship or replace the school's approved assessment and malpractice processes.

Task validity first

Check	Evidence / revision
Applicable syllabus confirmed	[2026 HSC uses applicable 2017 syllabus / first HSC 2027 uses 2024 syllabus]
Mathematical construct is clear	[What knowledge, reasoning or communication is being assessed?]
Outcome and content mapping is exact	[Current code / reference]
Students can access required tools and context	[Equity, language, technology and adjustments check]
Marking criteria reward mathematical evidence	[Reasoning, decisions, representations and checking]

Evidence-strengthening design

- Require meaningful intermediate decisions or representations, not decorative working.
- Use class-specific data or context only when it improves validity and remains accessible.
- Collect staged evidence where appropriate: plan, draft checkpoint, oral explanation or supervised component.
- Include verification prompts such as interpreting a result, checking a boundary or critiquing a method.
- Avoid obscure tricks designed only to make a current model fail.

Reproducible AI test protocol

Field	Record
Model / version / access date	[]
Tool access	[Browsing, code, calculator, file upload, none]
Exact prompt and question version	[Store in controlled test record]
Runs / settings	[Number of fresh runs and relevant settings]
Mathematical evaluation	[Correctness, reasoning, assumptions, verification]
Assessment revision	[Change made for validity or evidence quality]
Retest result	[Do not describe one failure as proof of resistance]

Reproducible benchmark results

Complete one row per fresh run and retain the exact task, prompt and output in the school's controlled review location. Blank rows are intentional: this template does not invent model performance. A result is reproducible only when another reviewer can repeat the stated setup.

Run ID	Task / prompt version	Model / version / date	Tools and settings	Math result	Reasoning / authorship evidence	Revision / retest
R1	[Exact file/hash]	[Exact product/model; access date]	[Browsing/code/files/settings]	[Correct / partial / incorrect + checked answer]	[What useful evidence remained?]	[Change + new run ID]
R2	[Same or declared variant]	[]	[]	[]	[]	[]
R3	[Same or declared variant]	[]	[]	[]	[]	[]
R4	[Revised task]	[]	[]	[]	[]	[]

Benchmark summary - do not overclaim

Measure	Before revision	After revision	Reviewer conclusion
Mathematical correctness across fresh runs	[n/N with scoring rule]	[n/N]	[]
Quality of visible reasoning / intermediate decisions	[Rubric result]	[Rubric result]	[]
Teacher confidence in authorship evidence	[Low / medium / high + why]	[]	[No benchmark proves authorship]
Accessibility and construct validity	[Review finding]	[Review finding]	[]

Release decision

Reviewer	Validity	Security / authenticity evidence	Accessibility	Decision / version
[]	[]	[]	[]	[]

Official sources

NESA artificial intelligence and assessment:

<https://www.nsw.gov.au/education-and-training/nesa/hsc/rules-and-procedures/artificial-intelligence>

NESA AI transparency: <https://www.nsw.gov.au/education-and-training/nesa/about/ai-transparency>

Developing school-based assessment programs:

<https://curriculum.nsw.edu.au/assessment-and-reporting/assessment-in-stage-6/developing-school-based-assessment-programs>

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