4.4 HL: Paper 3 practice

Name: _____ Class: _____ Date: _____ **Total: 31 marks**

KEY WORDS Paper 3 • source • claim • credibility • triangulation

Objective

Practise a complete HL **Paper 3** : read four sources about one claim, judge each source's research, and weigh all the sources together in a 15-mark answer.

You must be able to:

- explain issues that limit how far a source can be interpreted
- analyse quantitative and qualitative findings and link them to the claim
- suggest specific ways to improve credibility
- weigh several sources of different strength against a claim and reach a judgement

1 Key knowledge and worked examples

How to work

1. Read the **claim** first; for each source note: method, sample, main finding, direction (for or against the claim), and strength.
2. **Q1 (3 marks):** one issue (sample, allocation, measurement, chance) and its effect on what we can conclude.
3. **Q2 (6 marks):** describe the pattern with numbers → limits → a conclusion linked to the claim.
4. **Q3 (6 marks):** specific improvements: random allocation, larger and wider samples, objective measures, replication; for qualitative data: triangulation, a second coder, checking themes with participants.
5. **Q4 (15 marks):** group the sources (support / against / mixed); weigh each with the concepts (causality, measurement, bias); reach a judgement on **how far** the claim holds.

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Common error: summarizing each source in turn in Q4 instead of weighing them against the claim.

check	ask
causality	was anything randomly allocated? could a third variable explain it?
measurement	how was the behaviour measured? self-report or observed?
bias	who was sampled? who collected the data?
size	how large is the difference compared with the spread?

2 Practice

2.1 In one sentence, state what a source must show for it to **support** a causal claim. [1]



3 Exam-style questions

3.1 *(Paper 3.)* Claim: **"Giving students rewards for learning reduces their motivation to learn."** Sources B to D use fictional data for practice.

Source A. Lepper, Greene and Nisbett (1973): preschool children who liked drawing and were promised a certificate later spent about 9 % of free time drawing, against about 17 % to 18 % for children who were not promised it.

Source B. A teacher gave one Year 7 class points and prizes for every book read over six weeks; another class got nothing. The classes were not randomly allocated.

Source C. A questionnaire of 1,200 secondary students found a correlation of $r = -0.21$ between how much students said they study "for grades and rewards" and how much they said they enjoy learning.

Source D. Semi-structured interviews with 8 teachers from one city. Two themes: "rewards help weak readers start a habit" and "students begin to ask *what do I get?*".

(a) Explain **one** issue that limits the interpretation of the data in Source B. [3]

	during (6 weeks)	after (6 weeks)
rewards class: mean (SD)	6.2 (2.1)	2.9 (1.8)
no-reward class: mean (SD)	3.5 (1.9)	3.4 (2.0)

(b) Analyse the findings in Source C and state a conclusion linked to the claim. [6]

(c) Discuss how the researcher could improve the credibility of the findings in Source D. [6]

(d) Using **all** the sources, to what extent can we conclude the claim? [15]

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