Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

Each answer shows the steps, then the **result**.

2.1

that certainty increases with the amount of evidence; and ignores quality, interpretation and bias of evidence

2.2

$(600 + 600)/1600 \times 100 = \mathbf{75}\,\%$; the conclusion answers the title and shows judgement, which examiners reward; it should also state implications and the significance of other perspectives

2.3

OPERA reported neutrinos apparently faster than light; further checks found an equipment fault, a loose cable, and the result was withdrawn; shows that more evidence can reduce certainty in an earlier claim; and that science corrects itself through testing: a counter-claim to the title

2.4

a claim with a specific historical example, e.g. more sources increase confidence in basic facts; a counter-claim with an example, e.g. new archives produce new interpretations; a mini-conclusion weighing both; clear link back to the title

3.1

Mark with the TOK markbands (out of 10): [9-10] excellent: clear, focused, convincing links, well-chosen examples, implications explored; [7-8] good: focused, mostly clear links, relevant examples; [5-6] satisfactory: some focus, links partly explained; [3-4] basic: limited links, description more than analysis; [1-2] rudimentary. Points that may be included: key terms defined and the title unpacked; a claim in AOK 1 with a specific example; a counter-claim in AOK 1 with an example; a claim and counter-claim in AOK 2 with examples; evaluation leading to mini-conclusions; a conclusion with implications

3.2

any two, explained: generic or hypothetical examples: they cannot be tested and show little knowledge; writing about the subject, not about knowledge: e.g. explaining a science topic instead of how it is known; no counter-claims: the essay becomes one-sided; not answering the title in the conclusion (maximum 5)

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