

# 5.1 From a classroom observation to an open project question

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Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Total: 24 marks

**KEY WORDS** driving question 驱动性问题 • research question 研究问题 • scope 范围

## Objective

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From a classroom observation to an open project question. This is original GAC033-aligned practice, not an official assessment. All people, cards, records and instructions are fictional; no main study has been conducted.

## 1 Key knowledge and worked examples

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### ■ Key knowledge: purpose is wider than the measurement

A **driving question** 驱动性问题 gives a project its wider purpose. A **research question** 研究问题 names a narrower comparison and evidence that can answer it. The **scope** 范围 states the people, setting, materials and limits.

An observation records an event; an explanation proposes why it happened. Keep these separate. A paper task may inform an instruction design without proving everyday behaviour at real trays. Ask a question that permits more than one result, rather than requiring the preferred design to win.

### ■ Source A: proposal and task record

A fictional classroom shares pencils, rulers, cards and clips. After one class, the materials team finds three rulers in the pencil tray. It has not counted earlier returns, asked users or recorded which instructions were visible. This is one observation, not a measured error rate.

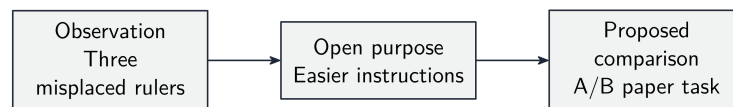
The team wants easier return instructions. It proposes two printed layouts and a four-item paper sorting task. Teacher approval is required before involving volunteers. The proposed task uses no grades or names; participation and stopping must be explained. No permission or participant results exist yet.

### ■ Source B: draft and current evidence

The first brief says, “Nobody cares about the trays. Our new labels will prove that students become responsible.” The team has no evidence of motives or later behaviour.

A revised purpose asks how return instructions could be easier to use. A narrower draft asks whether layout A or B leads to more completely correct sorting sheets among a small volunteer group. The wording, scoring key and assignment procedure still need to be agreed. One teammate suggests testing only readers who already like B; another proposes comparing instructions without revealing a preferred result.

### ■ Worked example: do not turn an explanation into a baseline



Known: three rulers were found in the pencil tray after one class. Why record the limit? There is no count of all returned items or earlier classes, so neither an error percentage nor a motive can be established.

A useful brief keeps the observation, names the instruction-design purpose and proposes a bounded A/B paper task. It lists unclear labels or rushed returns as possibilities, not findings. Define the outcome and procedure and obtain approval before recruitment. Even a later paper-task difference would not prove that real returns remain correct all term.

## 2 Practice

**2.1** State the initial observation and ONE important measurement not yet available. [2]

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**2.2** Identify the wider project purpose and the proposed narrower outcome. [2]

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**2.3** Give THREE reasons why the first brief overstates the record. [3]

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**2.4** Name an alternative explanation, one procedure detail still to define and one required permission. [3]

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### 3 Exam-style questions

**3.1** Evaluate THREE proposals: “Recruit only people who like B”; “Call three rulers the whole-class error rate”; “Treat an approved paper task as proof about every future return”. Give a correction and a reason for each. [6]

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