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School code

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School name

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Given name/s

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Family name

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Attach your  
barcode ID label here

Book

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of

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books used

External assessment

Question and response book

# Earth & Environmental Science

## Paper 2

### Time allowed

- Perusal time — 10 minutes
- Working time — 90 minutes

### General instructions

- Answer all questions in this question and response book.
- Write using black or blue pen.
- QCAA-approved calculator permitted.
- Planning paper will not be marked.

### Section 1 (38 marks)

- 5 short response questions

### Section 2 (15 marks)

- 1 extended response question





**DO NOT WRITE ON THIS PAGE**

**THIS PAGE WILL NOT BE MARKED**



## Section 1

- If you need more space for a response, use the additional pages at the back of this book.
    - On the additional pages, write the question number you are responding to.
    - Cancel any incorrect response by ruling a single diagonal line through your work.
    - Write the page number of your alternative/additional response, i.e. See page ...
    - If you do not do this, your original response will be marked.
  - This section has five questions and is worth 38 marks.
- 

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Do not write outside this box.



**QUESTION 2 (5 marks)**

This question refers to Stimulus 1 in the stimulus book.

- a) Identify the climatic event that occurred between April 2010 and April 2011.  
Explain your reasoning.

*[2 marks]*

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- b) Identify and explain the cause of the pattern in the SOI values between April 2011 and January 2012.

*[3 marks]*

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**QUESTION 4 (6 marks)**

This question refers to Stimulus 3 in the stimulus book.

- a) Explain how turbidity ponds are used.

*[2 marks]*

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- b) Draw a conclusion about the effectiveness of the turbidity management strategy at the mine site. Justify your conclusion.

*[4 marks]*

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b) To mitigate the potential effects of the sewage, water was released from a dam located further upstream. Propose three ways that this release would improve water quality. *[3 marks]*

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