**2023**

**Year 12 Earth and Environmental Science – Unit 3**

**Task 3: Exploration and Mining Test**

**Weighting: 6%**

**Time allowed: 45 minutes**

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Total Mark** |  |

*I acknowledge that all the information contained in this task is my own work and not taken from other sources. If other sources have been used, they have been acknowledged in my references.*

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(Student Signature)

*Please see SEQTA for teacher feedback and comments.*

1. Bauxite is mined in West Australian state forest in 1963 by Alcoa in a 7129km lease stretching from Wagerup to Kalamunda, with over 37million dry metric tonnes being mined each year.
2. What are **TWO** **geophysical** methods of exploration that could be used to discover a new bauxite resource?

For each method, you need to:

1. State AND describe the method
2. Provide evidence that might indicate that bauxite was present

Method One: (1 mark)

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Description of Method: (2 marks)

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Evidence of bauxite: (2 marks)

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Method Two: (1 mark)

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Description of Method: (2 marks)

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Evidence of bauxite: (2 marks)

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1. Explain why using a magnetic survey exploration method would **NOT** be suitable for identifying a bauxite resource. (3 marks)

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1. Describe how you could use **one geochemical** sampling technique to identify a more precise location of the bauxite resource. (5 marks)

You can use a diagram to support your answer

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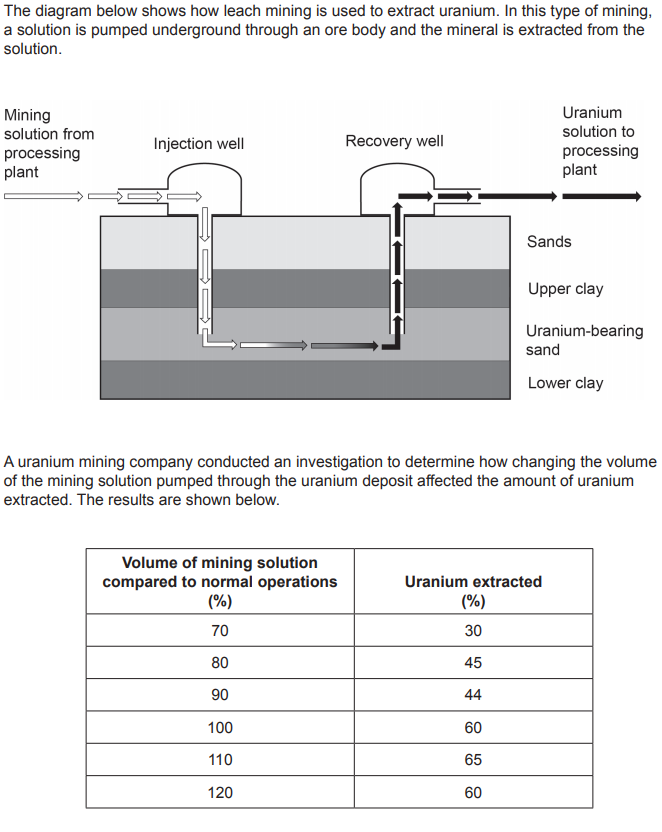
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Describe the process of surface mining and when it is appropriate to use (4 marks)

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1. Describe the process of underground mining and when it is appropriate to use. (4 marks)

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1. Identify the following variables for the investigation outlined on the previous page. (4 marks)
   1. Independent Variable:

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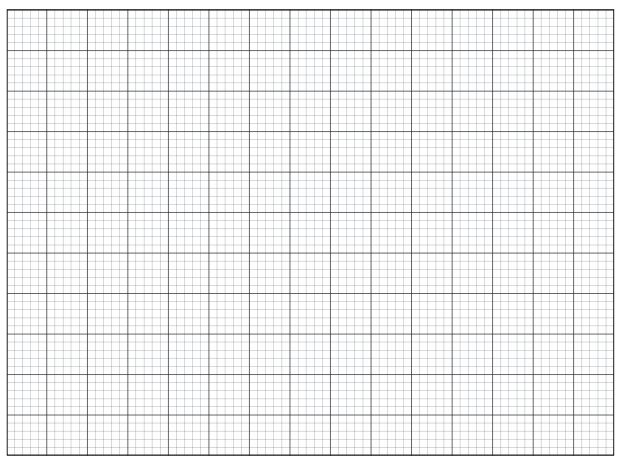
* 1. Dependent Variable:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Two** controlled variables:

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1. Using the data from the investigation on the previous page, draw a ling graph of the results for this investigation. (5 marks)
2. Using the data, **recommend** and **justify** the volume of mining solution that the company should use to extract the **most** uranium. (2 marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**END OF ASSESSMENT**