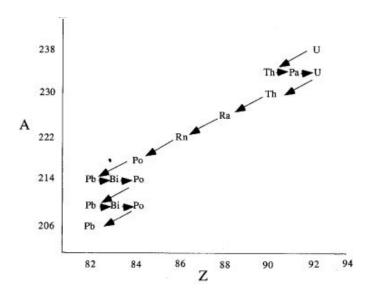


Compiled Exam

Comments & Suggestions? join.examcopedia.club/ panda@pandamakes.com.au

| 1. | Discuss the implication of slingshot effect on further space travel to the edge of solar system. | 2 |
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2. The following series shows how the element uranium decays to the stable isotope Pb-206.



What do the symbols Z and A on the y and x axes represent?

Write a nuclear equation for the first step of the series (alpha decay of uranium-238)

| The acetic acid concentration was calculated to be 0.1155 M. | |
|---|-------------|
| | |
| (a) Identify one property of NaOH which makes it unsuitable for use as standard. | s a primary |
| | |
| (b) Calculate the pH of the acetic acid solution, assuming that 1% of the acid molecules are ionised in solution. | ne acetic |

| Distinguish between weight a | and mass. | |
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| Assess the need to find alter | rnative sources to petrochemical industry. | |
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| theory of relativity. | | |
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| Outline J.J. Thompson's cathode ray. | s experiment which helped c | clarify the true nature of |
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9. A student created the following models to demonstrate a chemical process.

Image unlinked

(a) Identify the chemical process being modelled.

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| (b) Discuss the use of models to demonstrate chemical processes. |
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| Justify differences in the procedures used to treat and restore marine artefacts of different compositions. In your answer, refer to at least TWO artefacts of different compositions, one of them being a metallic artefact. Include relevant equations in your answer. | The composition of a marine artefact is a significant factor that affects the procedures used in its preservation and restoration. | |
|--|---|--|
| | different compositions. In your answer, refer to at least TWO artefacts of different compositions, one of them being a metallic artefact. Include relevant equations in | |
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