



# WELLINGTON COLLEGE

## I6+ ENTRANCE EXAMINATION

### BIOLOGY

Time allowed: 40 minutes

Total: 40 marks. Marks for each question are in brackets (x)

Special Instructions:

- Answer all questions in the space provided.

Name: \_\_\_\_\_

Current School: \_\_\_\_\_

Describe the role of an enzyme (3)

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Describe the mechanism by which enzymes carry out their function (3)

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**Design an experiment to investigate a factor that affects the rate of an enzyme of your choice.**

Enzyme to investigate (1)

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Equation for the reaction being investigated (2)

**Variables**

Independent variable (units for measurement) (2)

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Dependent variables (units for measurement) (2)

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**Control variables**

Variable 1 (1)

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How it will be controlled (1)

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Effect on data if not controlled (3)

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Variable 2 (1)

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How it will be controlled (1)

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Effect on data if not controlled (3)

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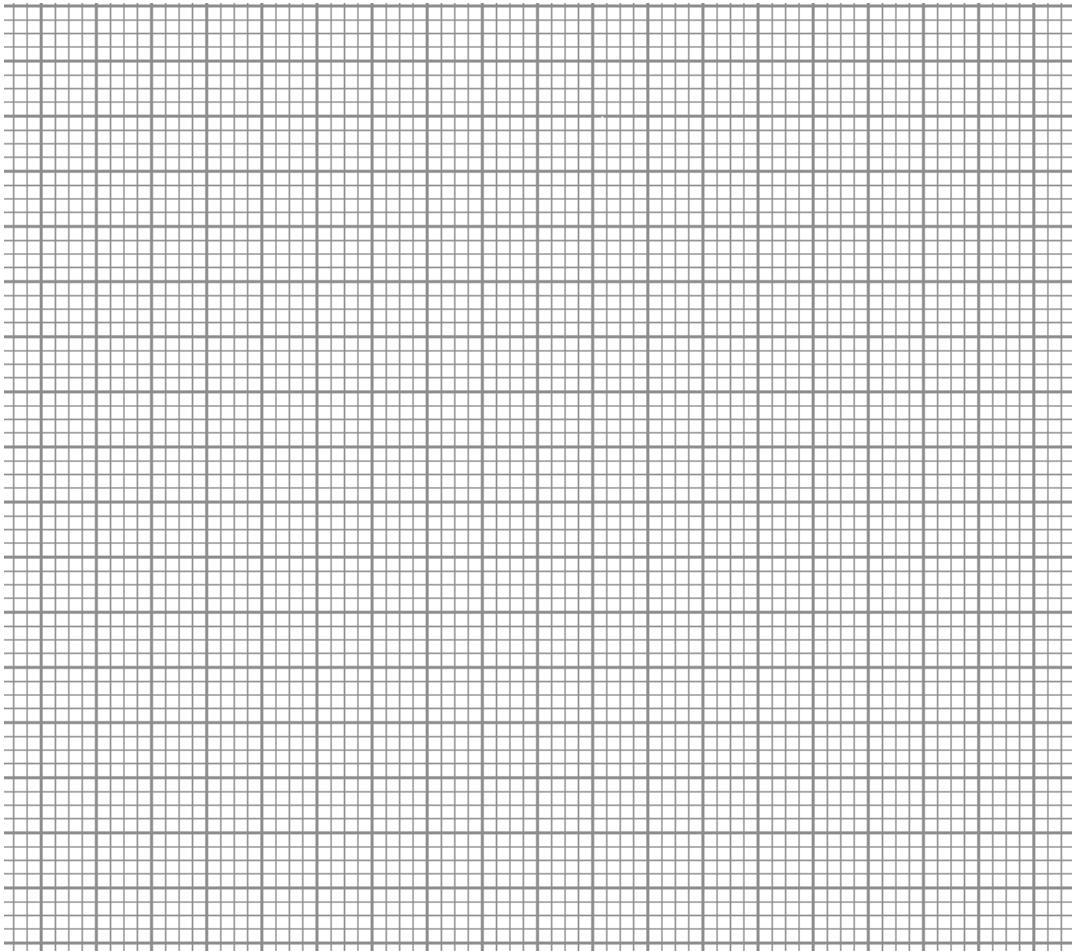
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Predicted graph (6)



Describe the graph you have drawn (3)

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