

**AQA, OCR, Edexcel**

# GCSE Science

## GCSE Biology

### DNA and Genome Questions

Name:

**M M E**

Mathsmadeeasy.co.uk

Total Marks: /23

Q1: How many chromosomes does a human have?

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(1 mark)

Q2: Describe the structure of DNA.

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(2 marks)

Q3: Where is the DNA of a cell stored?

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(1 mark)

Q4: What is the purpose of a gene?

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(1 mark)

Q5: Discuss the purpose of the human genome project.

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(2 marks)

Q6: Why is mitochondrial DNA important?

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(1 mark)

Q7: What can the analysis of the human genome tell us about history?

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(2 marks)

Q8: What is a DNA base?

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(1 mark)

Q9: Draw a link to the complementary base pairs.

T

G

C

A

(2 marks)

Q10: How many bases are required to make a nucleotide?

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(1 mark)

Q11: What effect can a genetic mutation cause to the amino acid sequence?

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(1 mark)

Q12: Explain how proteins are synthesised.

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(6 marks)

Q13: Which cell component contains the template for protein synthesis?

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(1 mark)

Q14: How many bonds are present in the G-C nucleotides? Circle one.

2

3

5

6

(1 mark)