

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Genes and Inheritance Questions

Name:

M

M

E

Mathsmadeeasy.co.uk

Total Marks: /20

Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

Q1: What is an allele?

(1 mark)

Q2: Describe what is meant by a dominant allele.

(1 mark)

Q3: What is a recessive allele?

(1 mark)

Q4: Discuss the differences between a heterozygote and a homozygote.

(2 marks)

Q5: Blue eyes are an inherited characteristic draw a punnet square to show the possible offspring with blue eyes.

(5 marks)

Visit <http://www.mathsmadeeasy.co.uk/> for more fantastic resources.

Q6: Explain how a genetic diagram is useful to scientists.

(4 marks)

Q7: Define the term phenotype and give an example of a mouse phenotype.

(2 marks)

Q8: Using the punnet square below what is the percentage chance of male sex inheritance.

Gametes	X	Y
X	XX	XY
X	XX	XY

(1 mark)

Q9: Why are genetic characteristic family trees useful?

(3 marks)