Inheritance

Genes 3.10.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Inheritance | Exploring Science 9A

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 What is the name of the chemical that carries genetic information? Give the three-letter name.

2 In which part of a cell is DNA found?

3 Long coiled strands of DNA in the nucleus are called what?

4 A short section of DNA that carries the instructions for one feature is called what?

5 How many chromosomes are in a normal human body cell?

6 How many pairs of chromosomes are in a human body cell?

7 What fraction of your chromosomes came from your mother?

8 Features passed from parents to their children through genes are called _____ features. Fill the gap with one word.

9 DNA is shaped like a twisted ladder. What is the name of this shape? Answer in two words.

10 Which woman scientist took X-ray photographs of DNA that helped show its shape?

11 Watson worked with which other scientist to build the first model of DNA in 1953?

12 How many chromosomes are in a human sperm cell?

13 Brothers and sisters with the same parents usually look different. Do they get exactly the same mix of genes? Answer yes or no.

14 Which twins have exactly the same genes because they came from one fertilised egg?

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15 Which monk grew thousands of pea plants in his garden to work out how features are passed on?

Year 9 stretch

16 Females have two X chromosomes. Which pair of sex chromosomes do males have?

17 An egg always carries an X chromosome. A sperm can carry an X or a Y. What is the chance a baby will be a boy, as a percentage?

18 An allele that shows its feature even when only one copy is present is called what?

19 A pupil has one allele for brown eyes and one for blue eyes, and has brown eyes. Is the blue-eye allele dominant or recessive?

20 Explain why Watson and Crick's model of DNA was not their discovery alone.

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