Inheritance

Answers

KS3 science quick questions

This topic online

Activate 2: Inheritance | Exploring Science 9A

Q	Answer	Remember
1	DNA	DNA is a set of instructions for building and running a living thing.
2	nucleus	The nucleus is like a library that stores the instruction books.
3	chromosomes	Chromosomes are only easy to see when a cell is dividing.
4	gene	If a chromosome is a book, a gene is one recipe in it.
5	46	That is 23 pairs, one of each pair from each parent.
6	23	23 pairs × 2 = 46 chromosomes.
7	half	The other half came from your father.
8	inherited	You might inherit your dad's dimples or your mum's freckles.
9	double helix	Helix means spiral, and there are two strands.
10	Rosalind Franklin	Her photo, called Photo 51, was a key clue.
11	Crick	Maurice Wilkins also shared the prize for the discovery.
12	23	Gametes have half the usual number, so the fertilised egg ends up with 46.
13	no	Each sperm and egg carries a different mix, except in identical twins.
14	identical twins	Non-identical twins come from two separate eggs.
15	Mendel	He did this in the 1860s, long before anyone knew about DNA.
16	XY	The Y chromosome is much smaller than the X.
17	50%	Half the sperm carry X and half carry Y.
18	dominant	A recessive allele only shows when there are two copies.
19	recessive	The brown allele is dominant, so it hides the blue one.
20	They used data from other scientists, especially Rosalind Franklin's X-ray photos.	Science often moves forward through many people sharing evidence.

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