

Name _____ Class _____ Date _____

1 a Where in a cell are chromosomes found?

b What is the name of the long molecule found in a chromosome?

2 Where is genetic information found? Tick (✓) all that apply.

☐ in genes

☐ in chromosomes

☐ in DNA

☐ in animal cells

☐ in plant cells

☐ in gametes

3 Where are the instructions for ABO blood type found? Tick (✓) the best answer.

☐ in a red blood cell

☐ in the brain

☐ in a hospital

☐ in a gene

4 What is the name of the largest human chromosome?

5 How many chromosomes would you expect to find in the following human cells?
Circle the correct answers.

Cell	Total number of chromosomes									
liver cell	0	1	2	3	6	12	23	46	69	92
sperm cell	0	1	2	3	6	12	23	46	69	92
zygote	0	1	2	3	6	12	23	46	69	92

6 Draw lines to match the scientists with what they did to help discover the structure of DNA.

Rosalind Franklin

Helped build a double helix model of DNA in 1953.

James Watson

Spent years testing the double helix model of DNA.

Maurice Wilkins

Recognised the shape spiral molecules make on X-ray photos.

Francis Crick

Took photos of DNA using X-rays.

7 Where would you expect to find genes?

I can...

- outline how the structure of DNA was discovered
- explain the importance of DNA
- describe the relationship between DNA, chromosomes, genes and genetic information.