

Biological Systems and Processes

Lesson 12 - DNA

KS3 Biology

Miss Hindle



Quick Recap...

1. Where do we find all of our DNA?

In the n.....

2. How many chromosomes do humans have?

3. What is different about the amount of DNA in sperm and egg cells?

Sperm and egg cells have the amount of DNA than in body cells.

4. Why is this important?



Finish this off:

DNA has a _____ shape.

DNA is made of 4 _____ called ____, ____, ____, ____.



Finish off:

A gene is a _____ of _____, each gene provides the information for one p_____



Keywords

DNA

A small section of DNA that codes for a specific protein

Gene

The shape of DNA

Chromosomes

They carry all the genetic information in an organism, there is 46 of them in humans

Double Helix

The chemical that your genetic material is made from



Write an answer:

How is DNA stored in our bodies? (write at least 2 points)



Quick Quiz...

1. How many chromosomes are in an adult human cell?
2. How many chromosomes are in an egg/sperm cell?
3. What has happened to the chromosome number?
4. Why is it important that this happens?
5. Sheep have 54 chromosomes. How many will be in each sex cell?



Exam Style Question...

Identical twins have the exact same genetic information.

Why do identical twins look VERY similar but not EXACTLY the same? **(5 marks)**

.....

.....

.....

.....

