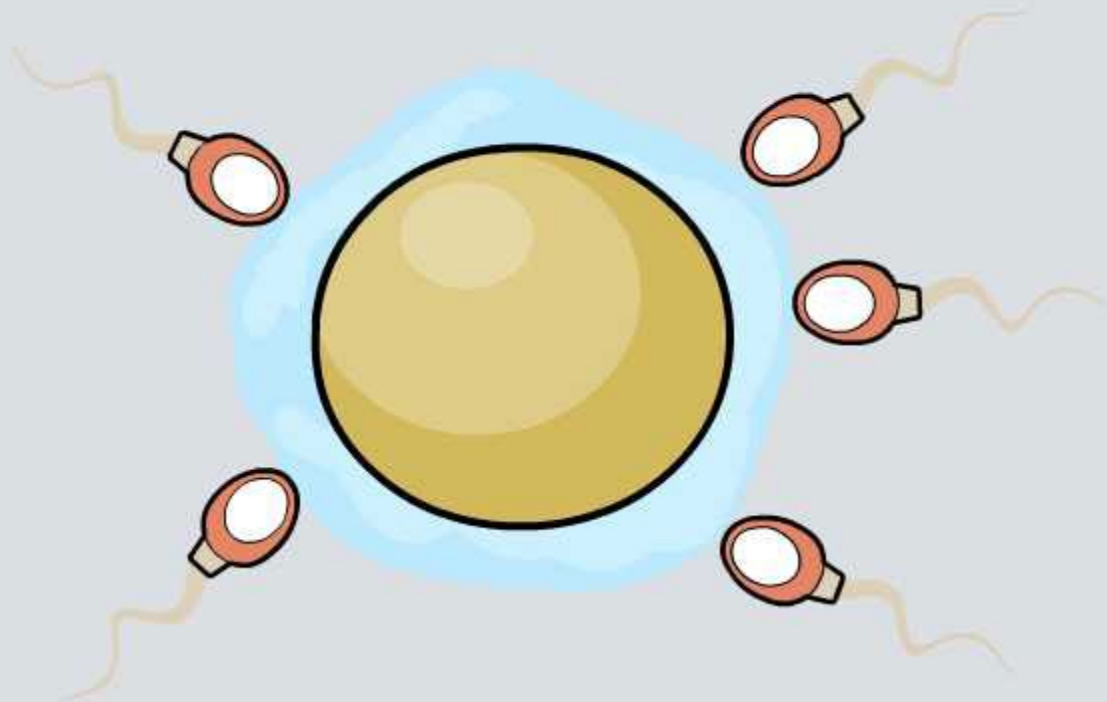


Causes of Variation



Where is the inherited information?

An organism's features can be inherited or caused by environmental factors.

Inherited features are those that have been passed from the parents to their offspring.

In all living things, inherited features are passed on in **genetic material**.

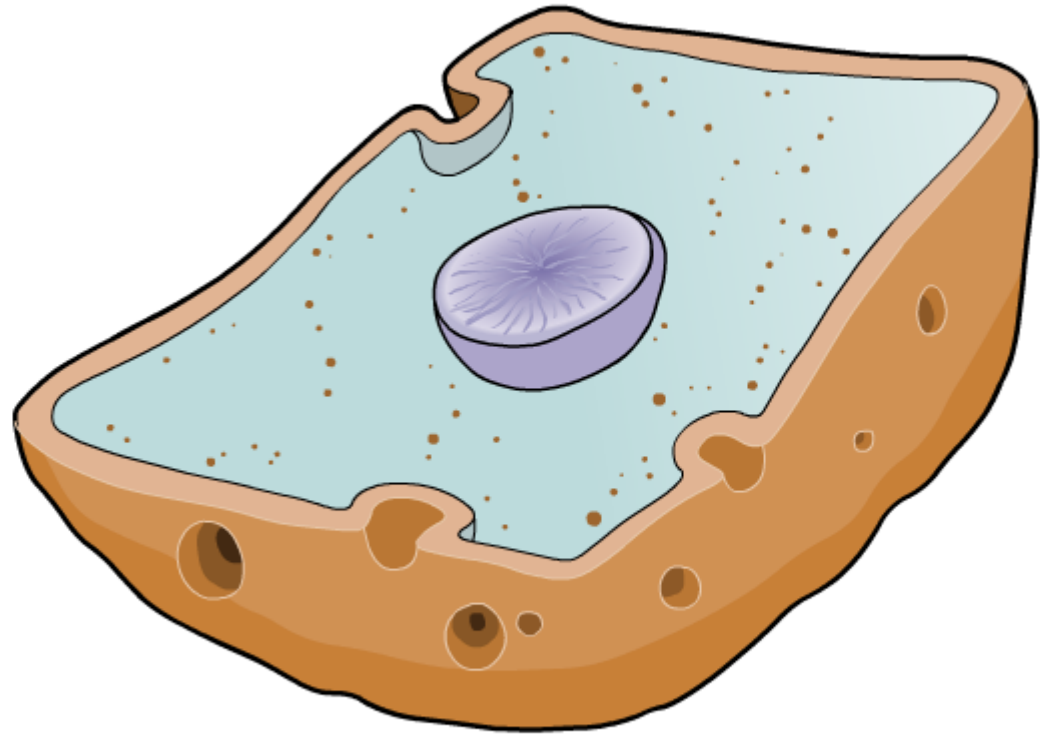
Where is the genetic material found?



Where is our DNA located?

The genes that control inherited characteristics are contained in the nuclei of our cells.

Click "**start**" to find out more.

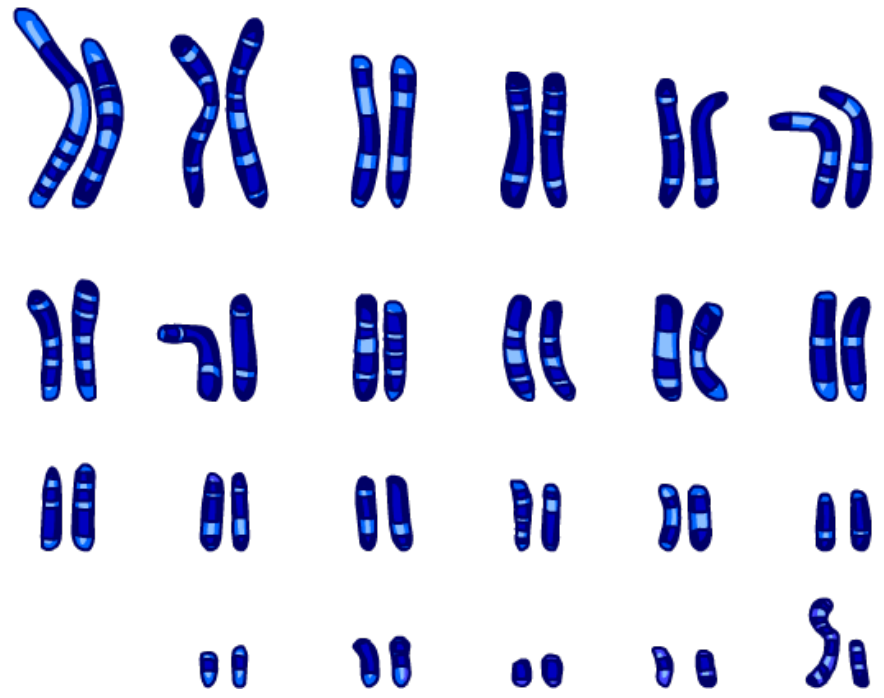


start



Sex cells in animals and plants are called **gametes**. In animals, the gametes are eggs (ova) and sperm.

When these gametes are produced from a parent cell, only one chromosome from each pair is copied.



Gametes contain half of the hereditary information. This means that human gametes only have **23 chromosomes**.



How are characteristics inherited?



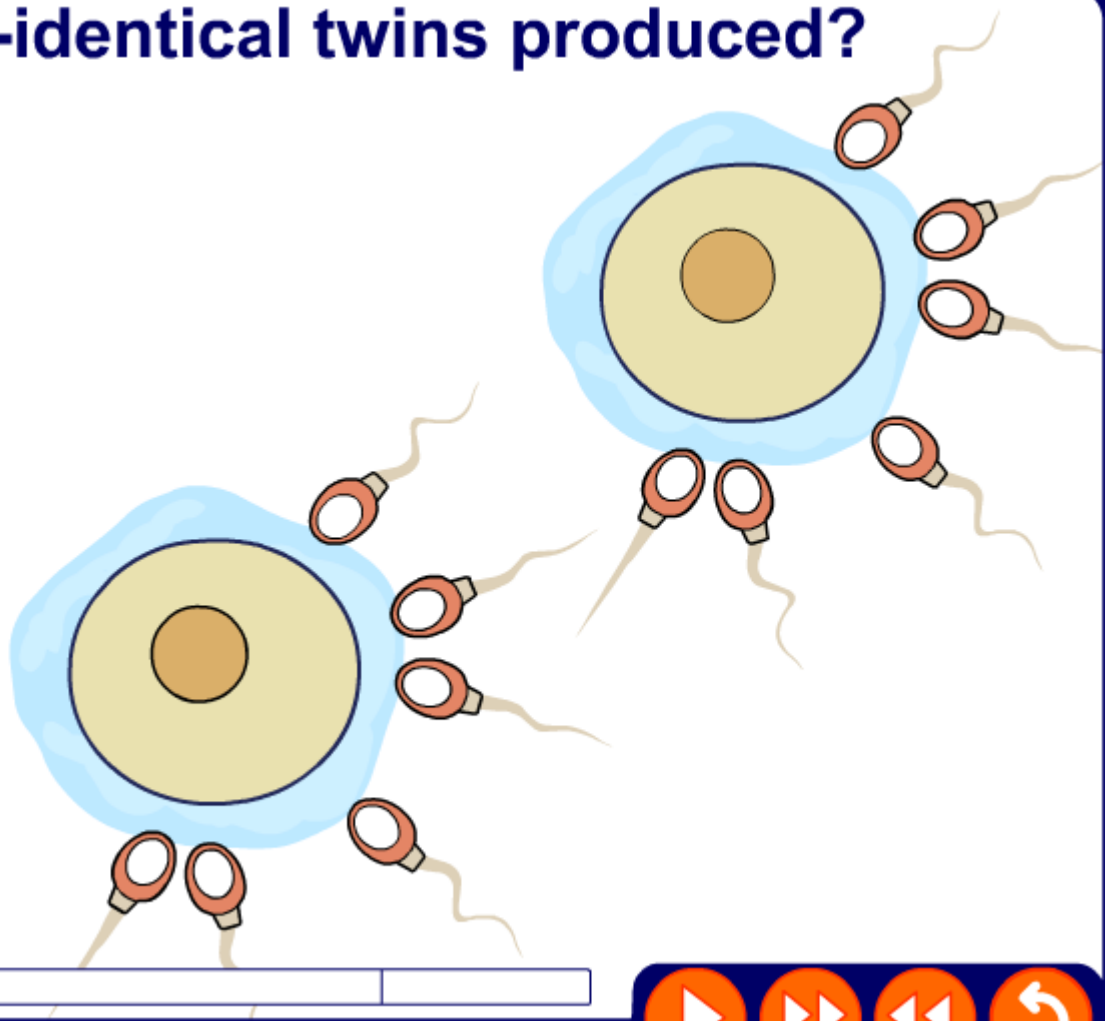
Identical twins



How are non-identical twins produced?

Non-identical twins are produced when two sperm cells fertilize two different egg cells.

Click "**play**" to find out more about how non-identical twins are formed.



What are the missing words about inheritance?

1. Variation in humans can be due to factors, factors or a combination of both factors.

2a. When humans reproduce via reproduction, the nuclei of the male sex cell and the female sex cell fuse.

2b. This cannot happen the same way twice, which makes each individual .

2c. This is called variation.



solve

