

Year 6 Science
Monday 8th June 2020

Lesson 1 - Evolution and inheritance

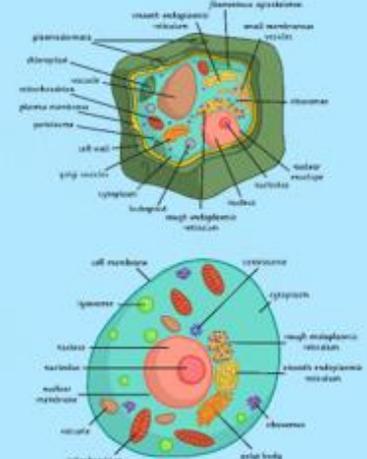
Activity 1

Before we start, what vocabulary do you know? Write a sentence explaining what each of the following words mean. If you are unsure, remember to think about similar words and what they mean.

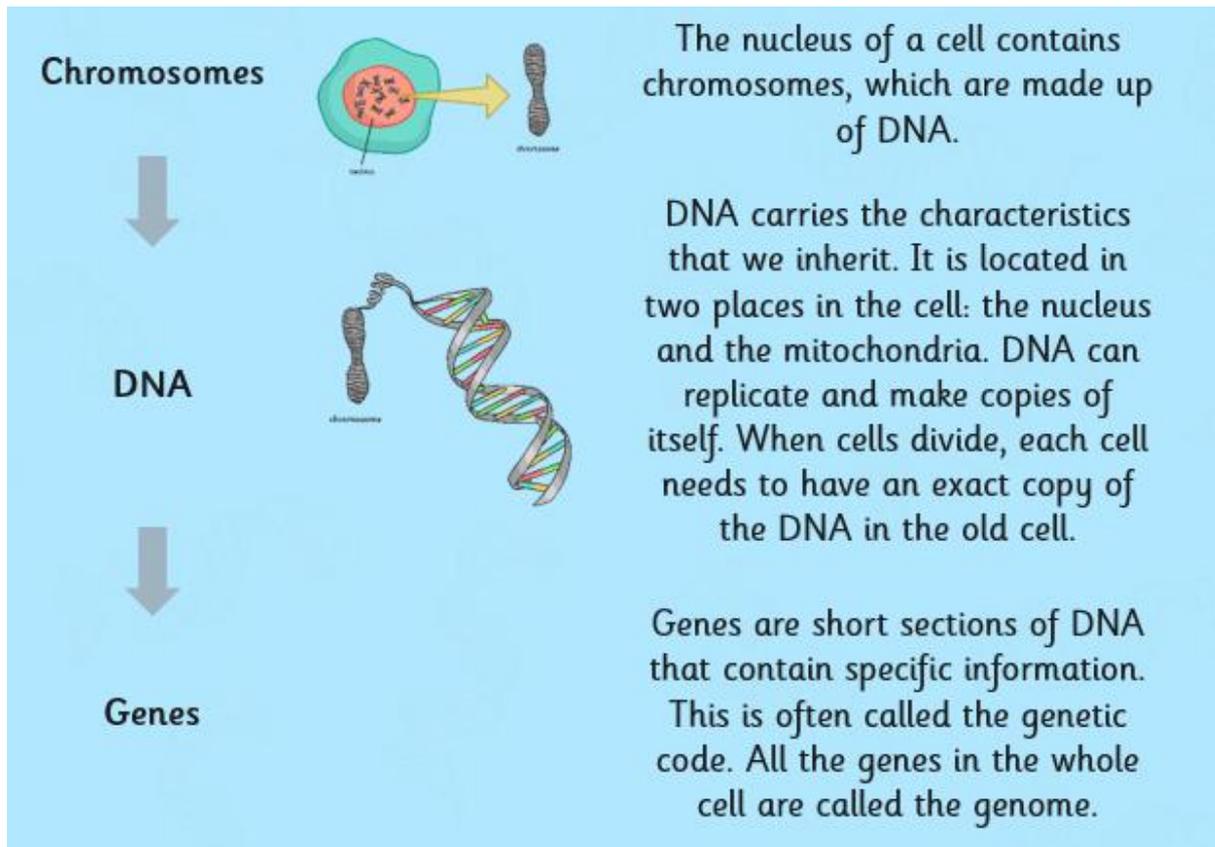
1. Variation
2. Parent
3. Fossils
4. Identical
5. Evolution
6. Offspring
7. Adaptation
8. Non-identical
9. Environment
10. Inheritance

While you will not be examining these in detail, it is helpful to know a little bit about what will be the building blocks for this unit.

Cells



Cells are the building blocks of all living things. All living things are made up of cells. Amoebas have one cell. Humans have trillions of cells!



What does 'variation' mean? What causes variation?

Inheritance: These are characteristics that are passed on from a parent to their offspring. These can include physical characteristics such as eye colour, hair colour and height, but can also include abilities such as taste and smell.



Adaptation: Over many generations, a species will adapt to its environment because the animals with the most successful characteristics are more likely to survive and pass on these characteristics to their offspring.



Watch the following video to help your understanding:

<https://www.youtube.com/watch?v=SldwzOJ23J8>

Activity 2

Match the parent with its offspring. What inherited characteristics can you see?



How can inherited characteristics (similarities between parent and offspring) result in variation (differences)?

A living thing inherits the characteristics from both of its parents, but the way they combine makes the offspring unique.

The inherited characteristics can combine in different ways, which is the reason why siblings inherit the same characteristics but are not identical to each other.

Even identical twins that share the exact same combination of DNA are not 100% the same! This is due to the fact that genes develop separately when the twins are embryos or during later development.

Activity 3

Look at the Inherited Characteristics Cards.

Which do you think have been inherited from parents? Which have been acquired (or learned as we grow up)?