

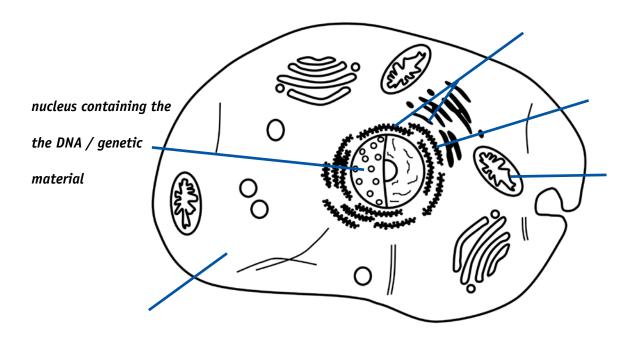
## **DNA-Evidence**



## 1a. The human cell.

Read the text and label the picture of the cell

If you take a look at a human cell under a microscope you can see different cell organelles. They all lie in a liquid called **cell plasma** and they all have different functions. The control center of the cell is located in the so-called **nucleus**. This is also where our **DNA** or **genetic material** is stored. It contains information about e.g. our eye colour or the length of our arms and legs. It unmistakably identifies everyone of us. Other cell organelles are for example the **mitochondria** which are the powerhouses of the cell. The **endoplasmic reticulum** plays an important role for different metabolic processes. Part of it is covered with **ribosomes** which are responsible for the construction of proteins.



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## 1b. Leaving traces behind.

Decide whether the following statements are right  $(\checkmark)$  or wrong (x). Correct wrong statements in the text.

1	. Fingerprints work like an identity card for each person, the pattern is unique.
2	. Not even identical twins have the same fingerprint patterns.
3	. If a criminal removes the physical fingerprints from a crime scene, it guarantees that he or she will not get caught.
4	. Sometimes criminals leave their "biological visiting card" behind, without noticing.
5	. There is a genetic defect called "Adermatoglyphia" that causes a person to have no fingerprints
6	. DNA traces can be helpful to identify the exact age of a person.