

Combined Science - Biology - KS4

# Meiosis and Fertilisation

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**OAK**  
NATIONAL  
ACADEMY

# What is meiosis?

**1**

A type of cell division needed for growth and repair

**3**

The opposite of mitosis

**2**

A type of cell division where two identical cells are formed

**4**

A type of cell division which produces gametes



# Independent task

1. Where does meiosis happen? \_\_\_\_\_ organs
2. Name 2 **gametes**: \_\_\_\_\_ & \_\_\_\_\_
3. How many chromosomes does a **human** gamete have? \_\_\_\_\_
4. How many times do the cells divide in meiosis? \_\_\_\_\_
5. How many cells are produced? \_\_\_\_\_



## The differences between meiosis and mitosis are... (6)

- Meiosis produces \_\_\_ cells, whereas mitosis produces \_\_\_ cells.
- Where does each process take place?
- How many chromosomes are in the daughter cells of each process?
- How many times does the cell divide?



# Fertilisation: knowledge check

- Part of \_\_\_\_\_ reproduction
- \_\_\_\_\_ fuse
- Restores the normal number of \_\_\_\_\_
- The new cell divides by \_\_\_\_\_

