

# OCR (B) Biology GCSE

Topic B6.2: How do sexual and asexual reproduction affect evolution?

(biology only)

Flashcards

# What is sexual reproduction?

# What is sexual reproduction?

- Type of reproduction
- Involves the production of gametes by meiosis
- A gamete from each parent fuses to form a zygote
- Genetic information from each gamete is mixed so the resulting zygote is genetically different from each parent

# What is asexual reproduction?

# What is asexual reproduction?

- Type of reproduction
- Involves mitosis
- Produces genetically identical offspring known as daughter cells

# What is the advantage of sexual reproduction?

# What is the advantage of sexual reproduction?

Sexual reproduction creates genetic variation, increasing the probability of a species adapting to and surviving environmental changes.

# Describe the disadvantages of sexual reproduction (2)

## Describe the disadvantages of sexual reproduction (2)

- Two parents are required. This makes reproduction difficult in endangered populations or in species which exhibit solitary lifestyles
- More time and energy is required so fewer offspring are produced

# Describe the advantages of asexual reproduction (3)

## Describe the advantages of asexual reproduction (3)

- Only one parent is required
- Lots of offspring can be produced in a short period of time, enabling the rapid colonisation of an area and reducing competition from other species
- Requires less energy

What is the disadvantage of asexual reproduction?

# What is the disadvantage of asexual reproduction?

No genetic variation (except from spontaneous mutations) reducing the probability of a species being able to adapt to environmental change