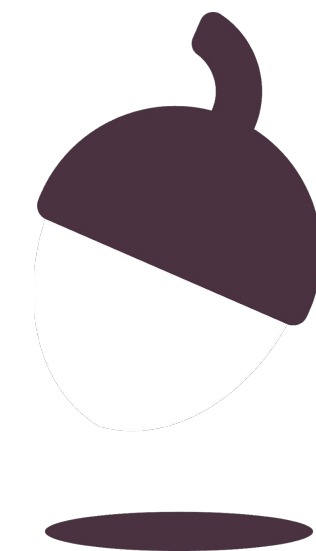


Biology - Key Stage 4

Advantages and disadvantages of sexual and asexual reproduction

Mrs Gibbs



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Advantages of asexual reproduction are:

- How many parents are needed?
- What does this mean in terms of speed and efficiency?
- What can happen when conditions are favourable?



Advantages of sexual reproduction are:

- How many parents are needed?
- What does this cause in offspring?
- What happens if their environment changes?



Independent task

Fungi

Can produce seeds sexually or reproduce asexually through bulbs

Daffodils

Reproduces asexually in the human host but sexually in the mosquito

Strawberries

Can reproduce sexually, but will also reproduce asexually using spores

Malaria parasite

Can produce seeds sexually or reproduce asexually through runners



Malarial parasites reproduce asexually in the human host and sexually in the mosquito.

Explain why this is an advantage.

- When the malarial parasite produces sexually, there is _____ between the offspring. This means they are more likely to survive if there is a _____ in the _____.
- When the malarial parasite produces asexually, many genetically _____ organisms can be produced _____, if conditions are _____



Tulips can reproduce sexually by seeds and asexually by bulbs.

Explain why being able to reproduce both sexually and asexually is an advantage to the species.

- Reproducing sexually is an advantage because...
- Another advantage of producing seeds is...
- Reproducing asexually is an advantage because...

