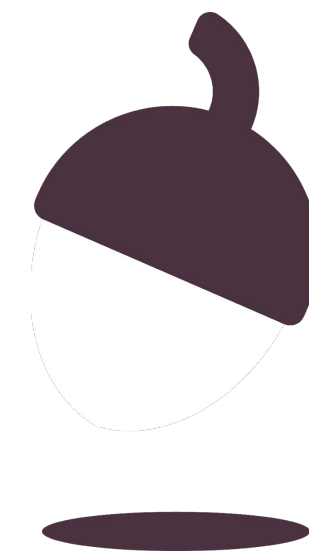


Biology - Key Stage 4

Cloning

Mrs Gibbs



OAK
NATIONAL
ACADEMY

Independent task

1) Cloning is when genetically _____

1) Plants are cloned to protect rare species from _____

They are also cloned to produce crops with desirable characteristics such as:

1) Animals are cloned to produce cattle with desirable characteristics such as:

1) Animals could also be cloned for use in _____



Cloning in plants

1. What are the two ways a plant can be cloned?

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1. Suggest why a gardener may choose to clone her plants instead of produce more using seeds

Hint: seeds are produced sexually



Independent task

- 1) E_____ t_____ involves s_____ apart cells from a developing embryo before they become s_____. The identical embryos are then t_____ into h_____ mothers.
- 2) An advantage of embryo transplants over selective breeding is that:



Put the steps of adult cell cloning in order

- An electric shock stimulates the egg cell to divide into an embryo
- The nucleus is removed from an unfertilised egg cell
- The embryo is inserted into the womb of an adult female
- The nucleus from an adult body cell is inserted into the empty egg cell

1. _____

2. _____

3. _____

4. _____

