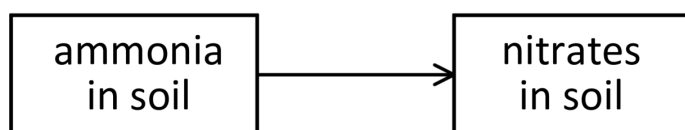


Name:

Class:



The diagram shows one of the stages of the nitrogen cycle.



i. This stage of the nitrogen cycle is called?

Nitrification

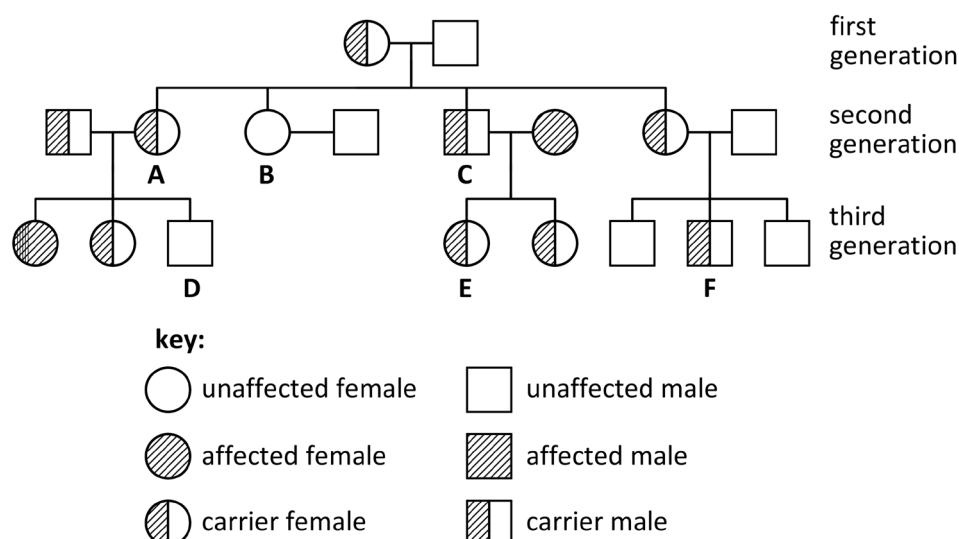
ii. Name the bacteria responsible for this stage. **Nitrifying bacteria**

iii. Explain how plants use the nitrates from the soil.

An explanation to include **two** of the following:

- Used to make amino acids
- Used to make protein.
- For growth.

The family pedigree shows the inheritance of sickle cell disease through three generations.



Calculate the percentage of the **offspring** from the first generation who are heterozygous for sickle cell disease.

3 out of 4 are heterozygous for sickle cell disease.

75 %

Sweat glands in the skin release sweat. Explain how sweat can cool the body down.

An explanation that links:

- Sweat evaporates.
- Taking heat from the skin. Allow heat is lost from the body. Allow takes heat from the body.

Name the hormone that causes ovulation and state where it is produced.

Hormone: luteinising hormone.

Produced by: the pituitary gland.

Which hormone has negative feedback on FSH and where is it produced?

Hormone: oestrogen.

Produced by: the ovary/ ovaries.