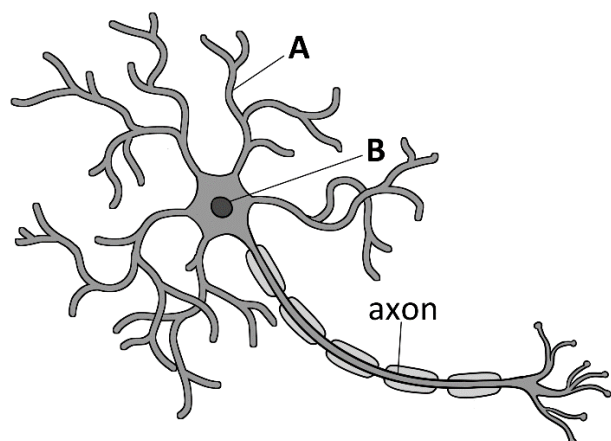


Name:

Class:



Neurones form part of the nervous system. The figure below shows a neurone.



The neurone in the figure is found between the spine and arm.

i. What type of neurone is shown?

A motor neurone.

ii. Name structures A and B.

Structure A = **dendron / dendrite**

Structure B = **nucleus**

State the function of phloem

To transport sucrose.

State the function of xylem.

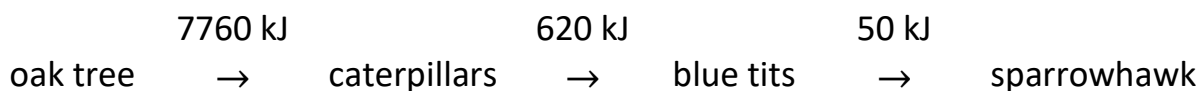
To transport water.

Describe how malaria is transmitted.

A description to include the following:

- **By biting.**
- **By the vector.**
- **Of a female anopheles' mosquito.**

The food chain shows the energy transferred between organisms.



The energy available in the oak tree that could be transferred to the caterpillars was 97000.

i. Calculate the percentage loss of energy between the oak tree and the caterpillars.

$$\% \text{ Transferred} = (7760 \div 97\,000) \times 100$$

$$\% \text{ Transferred} = 8 \%$$

$$100 - 8 = 92 \%$$

$$\text{percentage loss} = 92 \%$$

ii. Suggest how energy is lost between trophic levels in this food chain.

Any two of the following:

- **Not all of the organisms are consumed.**
- **Indigestible / egestion.**
- **Excretion.**
- **Movement.**
- **Heat / respiration.**
- **Reproduction.**

State the **two** products of anaerobic respiration in yeast.

Carbon dioxide and ethanol.