

GCSE Biology A (Gateway)

J247/04 Biology A B4-B6 and B7 (Higher Tier)

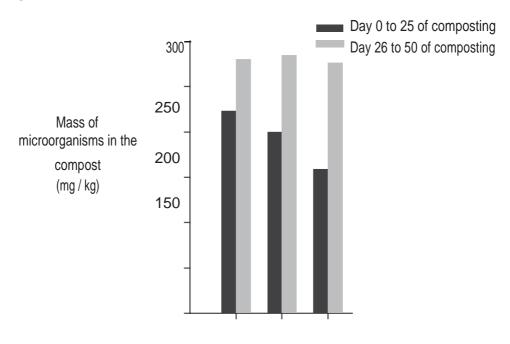
Question Set: 12

1 This machine helps shred plants for a compost heap.



The machine can shred plants into three different sizes.

This graph is in the instruction booklet for the machine.



Size of plant pieces (mm)

(a) Which size of plant pieces is best for making

compost? Explain your answer.

23 mm he cause it encourages more microbes from day 0-25

therefore there is more rapid decay so more compost. [3]

(b) The size of the plant pieces has an effect on the number of microorganisms in the compost.

Suggest why.

Small pieces means there will be a larger surface area of dead [2] plants. Therefore decomposers will be able to respire faster.

(c) The decomposition of dead plants and animals is an important process for ecosystems.

Explain why.

Ond nitrogen

It to returns minurals like Carbon back to the environment.

This makes it easier for protein production in plants.

[3]

Total Marks for Question Set 12: 8



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