

Life on Earth – past, present and future – 2022 GCSE 21st Biology Combined Science B**1. June/2022/Paper_J260/01/No.5**

The image shows a type of ecosystem called a peatland.



Peatlands have high biodiversity. Many different species live there.

(a) The table shows the mass of carbon contained in peatland soil and in woodland soil.

Type of soil	Mass of carbon (kg per m ³ of soil)	Mass to the nearest 10 kg
Peatland	178
Woodland	124

- (i) Complete the table by writing in the masses rounded to the nearest 10 kg. [1]
- (ii) Calculate how many times more carbon is contained in peatland soil than in woodland soil.

Number of times more carbon = times more [2]

- (b) Some companies remove large amounts of soil from peatlands to sell in garden centres.

Describe **two** ways in which this could reduce the biodiversity of the peatlands.

1

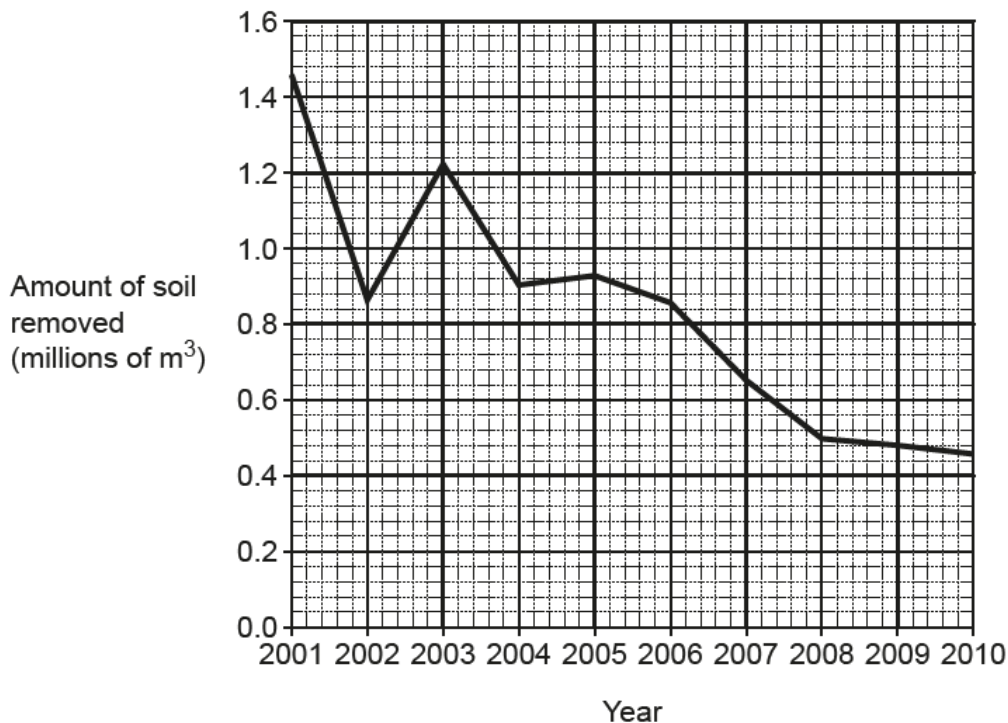
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2

.....

[2]

- (c) The graph shows the amount of soil removed from peatlands in England over 10 years.



Which conclusion is supported by the data in the graph?

Tick (✓) **one** box.

Soil must have been added to the peatlands between 2002 and 2003.

☐

The amount of soil removed was highest in 2003.

☐

The threat to biodiversity in the peatlands decreased each year.

☐

The threat to biodiversity in the peatlands was lowest in 2010.

☐

[1]