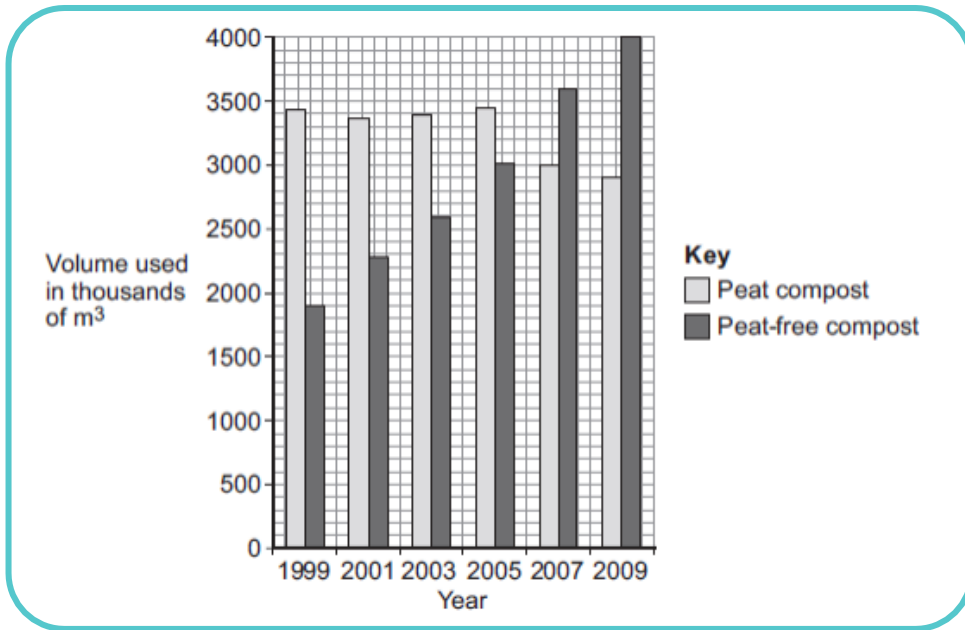




Investigate the growth of plants in 'peat free' and peat-based composts using the data presented in graphs and answer related questions

Task 1: Human activities have many effects on our ecosystem. The graph shows the volume of peat compost and peat-free compost used in gardening from 1999 to 2009.



(A) Describe the trends shown in the graph.

(B) What effect does the destruction of peat bogs have on the gases in the atmosphere?

(C) Deforestation is also damaging ecosystems. Describe one effect of deforestation on ecosystems.



Task 2: .In many areas of the world the mass of household waste produced each year is increasing.

(A) Give two reasons why the mass of household waste is increasing each year.

1. _____
2. _____

(B) The table below shows how the mass of household waste in the UK has changed from 2004 to 2012

Year	Total mass of household waste in thousands of tonnes (including total household recycling)	Total mass of household recycling in thousands of tonnes	Percentage of household waste recycled
2004	25 658	5785	22.5
2006	25 775	7976	30.9
2008	24 334	9398	38.6
2010	23 454	9733	
2012	22 643	9782	43.2

(i) Calculate the percentage of household waste recycled in 2010.

(ii) The UK government has been encouraging a ‘zero waste economy’. In a ‘zero waste economy’, we reduce, reuse and recycle as much waste as possible. A newspaper concluded that: ‘The government’s ‘zero waste economy’ has been successful.’ Use information from the table to describe the reasons for and against the newspaper’s conclusion.
