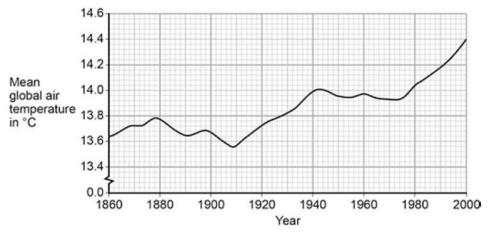
0 1	This question is about the temperature of the Earth's atmosphere.	
0 1 . 1	Give <b>one</b> reason why it is difficult to produce models for future climate any one from:	change. [1 mark]
	<ul><li>complex systems</li><li>many different variables</li></ul>	
	many alternative theories	
0 1 . 2	Describe how carbon dioxide helps to maintain temperatures on Earth.	[3 marks]
	carbon dioxide allows short wavelength radiation to pass through allow greenhouse gas(es) for carbon dioxide	[1]
	the atmosphere to the Earth's surface	[1]
	carbon dioxide absorbs outgoing long wavelength radiation	[1]

The figure below shows the change in mean global air temperature from 1860 to 2000.



1 . 3 Explain how human activities have contributed to the main trend shown from 1910 in the figure above.
[3 marks]

general increase in temperature caused by increase in greenhouse gases [1]

any two human activities correctly linked to a named greenhouse gas [2] e.g.

- increased burning of fossil fuels causes more carbon dioxide
- deforestation causes more carbon dioxide
- · more cattle production causes more methane
- · use of landfill causes more methane

(Total 7 marks)

**End**