0 1	This qu	estion is about	out gases in the Earth's atmosphere.					
0 1 .		The amount of carbon dioxide in the Earth's atmosphere decreased during the first billion years of the Earth's existence.						
	Comple	ete the sentend		[2 marks]				
Ca	arbonates	dissolved	evaporated	melted	nitrates	sulfates		
			dioxide in the Ea	arth's atmosp				
		oon dioxide				s. were produced.		
			arbon dioxide an	d water to pr				
0 1 . [	What is	s the name of t	his process?			[1 mark]		
	Carbor	n capture						
	Combu	ıstion						
	Photos	ynthesis						
	Polyme	erisation						
0 1 . [	3 Comple	ete the word ed	quation for this pi	ocess.		[1 mark]		
carbon di	oxide +		→ g	lucose + _				

0 1 . 4		gas to the approximate percentage of the gas in the Earth's					
	atmosphere today.	[3 marks]					
	Gas	Approximate percentage of gas in the Earth's atmosphere today					
		<1					
	Carbon dioxide	5					
		10					
	Nitrogen	20					
		50					
	Oxygen	80					
		>90					
0 1 . 5	Carbon dioxide is a greenhouse gas.						
	Why does increasing the amount of carbon dioxide change the global climate?  [1 mark]						

Question 1 continues on the next page

SPECIMEN MATERIAL Turn over >

0 1 . 6	How can countries reduce carbon dioxide emissions?				
	Tick one box.				
	only burn methane				
	use renewable energy supplies				
	use waste plastic bags as fuel				
0 1 . 7	Give <b>one</b> reason why it is difficult for countries to reduce emissions of carbon	dioxide. [1 mark]			

## Question 1

Question	Answers	Extra information		Mark	AO / Spec. Ref.
01.1	dissolved	in this order		1	AO1/1
01.1	carbonates			1	5.9.1.2
01.2	Photosynthesis			1	AO1/1 5.9.1.3
01.3	water	In this order		1	AO1/1
	oxygen	both needed for the mark			5.9.1.3
01.4	Gas Approximate per in the Earth's atm	nosphere today	Extra lines from Gas negate the mark	3	
	Carbon dioxide 5	_			AO2/1
	Nitrogen 20	_			AO1/1
	Oxygen 80	)			AO1/1
	>9(	0			5.9.1.1
01.5	increases global temperatures			1	AO1/1 5.9.2.2
01.6	use renewable energy supplies		1	AO1/1	
					5.9.2.4
01.7	correct reason, eg:			1	AO1/1
	<ul> <li>renewable technology underdeveloped</li> <li>disagreement between countries</li> </ul>				5.9.2.4
Total				10	