

Test 17: Earth 2 – Climate and Earth resources

KNOW			
Q	Answers	Marks	Syllabus
01-05	D; C; A; B; A	5	3.7.3
06-10	D; A; C; C; D	5	3.7.4
APPLY			
Q	Answers	Marks	Syllabus
11	Combustion (from house), respiration (from cow) and photosynthesis (to tree).	3	3.7.3
12	a. It has caused global warming (temperature has increased) due to reduction in the ability of the Earth to radiate heat.	2	3.7.3
13	a. Different possible answer, such as: it's a limited resource; extraction would consume more energy than recycling.	1	3.7.4
	b. Reduce use of trees, which remove carbon dioxide from the atmosphere.	1	
	c. Use less oil, which is a limited resource that is increasingly difficult to drill. (Also, plastic decomposes very slowly and is particularly dangerous to aquatic species.)	1	
14	a. Electrolysis. It is too reactive to use carbon displacement.	1	3.7.4
	b. Carbon displacement. It is below carbon in the reactivity series.	1	
EXTEND			
Q	Answers	Marks	Syllabus
15	a. The graph shows that the rise in global temperature is proportional to the rise in CO ₂ over the last 1000 years. (The rise in CO ₂ is due to human activity: pollution and deforestation.)	1	3.7.3 Enquiry process: 2.9
	b. Conclusions are always best supported by a wide range of readings since it reduces the probability of trends being coincidental or 'one-offs'.	1	
16	There are many examples: use the car less, choose food with less packaging, buy locally sourced goods, recycle, buy less and reuse more, fly less, and so on.	3	3.7.4