

The Earth receives many types of radiation from the hot Sun, including infrared, visible light, and ultraviolet radiation. Some of the Sun's radiation is absorbed by the Earth's atmosphere or reflected back into space.	transparent to the Sun's infrared but absorbs infrared radiated by the Earth's surface. This is because photons in the Earth's infrared radiation do not have the same energy as those in the Sun's infrared.		
18 How humans increase carbon dioxide in the 19 How humans increase methane in the			
atmosphere Combustion of fossil fuels	atmosphere Increased animal farming		
Deforestation	Decomposition of rubbish in landfill		
20 How humans can decrease carbon dioxi			
concentration	concentration		
Use alternative forms of energy e.g. wind turbines	Alternative foods – non-animal based		
Energy efficiency e.g. more efficient cars	Increased recycling		
Carbon capture – capturing CO ₂ from power			
stations and trapping it			
Carbon off-setting – planting more trees			
Effects of global warming			
22 Some regions will not be able to produce enough food because of drought .			
23 Changes to distribution of species and migration patterns.			
24 Increase in sea levels because of melting of polar ice caps.			
25 Reduction of water supplies in some regions.			

Section 4: Common Pollutants			
Pollutant	Formula	Cause	Effect
26 Carbon monoxide		Incomplete combustion of a hydrocarbon fuel.	Toxic gas. Colourless and odourless so hard to detect.
27 Sulfur dioxide			Cause respiratory problems (e.g. for those with asthma).
28 Nitrogen oxides	NO _x		Combine with water vapour to cause acid rain .
29 Particulates	CO2		Global dimming (reduction in sunlight reaching Earth).