Biology

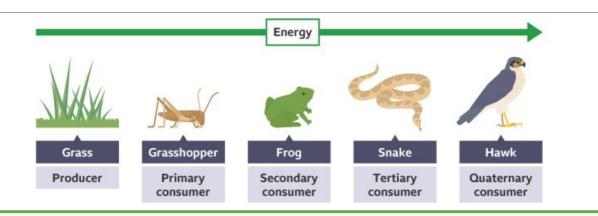
		1	Maintaining biodiversity
GCSE Ecology			Breeding programmes
Learned	Revised	Confident	Protection and regeneration of rare species
			Reintroduction of field margins and hedgerows.
			Reduction of deforestation and carbon dioxide emissions
% Achieved:			Recycling resources rather than dumping waste in landfill.

N°	Keyword	Definition
1	Abiotic factor	A non-living factor that can affect a community, e.g. light intensity and temperature
2	Adaptation	Special features that allow living organisms to survive and be successful in their habitat.
3	Biodiversity	The variety of all the different species of organisms on Earth, or within an ecosystem.
4	Biotic factor	A living factor that can affect a community, e.g. availability of food and new predators.
5	Community	Two or more populations of organisms occupying the same area.
6	Ecosystem	The interaction of a community of living organisms (biotic) and the non-living (abiotic) parts of their environment.
7	Interdependence	The dependence of each species on other species for food, shelter, pollination, seed dispersal etc. If one species is removed it can affect the whole community.
8	Quadrat	A square frame used to take a representative sample of plants or slow-moving animals in an area.
9	Transect	A line across a habitat or part of a habitat used to sample the number of organisms at regular intervals.

Facts

Carbon cycle - the main process involved are respiration, combustion and photosynthesis.

Water cycle - evaporation, condensation, precipitation, percolation, transpiration, respiration. Global warming impacts living things by causing changes in the distribution of organisms, rising sea levels and habitat loss, changing weather patterns and changing migration patterns. Land use for dumping waste, quarrying, farming and building - this reduces biodiversity.



Chemistry

	SE Chemis ne atmospl	here	
Learn	ed Revised	Confident	
	% Achieved:	LESS PHOTOSYNTHESIS (REMOVES CO.)	
N°	Keyword	Definition	
1	Atmosphere	layers of gases that surround the Earth. The main gases are nitrogen, oxygen and carbon dioxide.	
2	Crude oil	Mixture of hydrocarbons, mainly alkanes, formed over millions of years from the remains of ancient dead marine organisms.	
3	Evidence	Information or material that shows something is true.	
4	Sedimentary	Rocks that are formed through the deposition of sediments, eg limestone and sandstone	
5	Global warming	The increase of the overall average global temperature	
6	Carbon footprint	The total amount of greenhouse gases a person, product or event is responsible for	
7	Greenhouse gases	The gases responsible for global warming - carbon dioxide, methane, nitrous oxide and water.	
8	Greenhouse effect	Retention of heat in the atmosphere caused by a build-up of greenhouse gas	
9	Pollutant	t A toxic chemical or object that causes damage to the land, air or water.	
10	Atmospheric pollutants	CO CARBON MONOXIDE SOOT SOOT SULFUR DIOXIDE NITROGEN OXIDES	
N°		Fact	
11	The evolutior	n of the atmosphere is only a theory. This is because there is a lack of evidence <u>NOT</u> because no-one was there	
12	The main effects of global warming are: flooding from sea level rise; extreme weather such as hurricanes; changes in rainfall such as storms and droughts and extinction due to all of this		
13	The Earth needs certain level of greenhouse gases to be habitable. Without greenhouse gases the Earth would be too cold to live on		
14	Carbon footprints are difficult to measure due to the large number of factors that need to be considered and the complexity of the greenhouse effect in the atmosphere.		

GCSE Using resources		•	1 FRESH WATER NEED TO TREAT IT -> (SAFE TO DRINK) (1) (WIRE MESH WIRE MESH	
Learned Revised		Confident	FILTER OUT ANY BIG THINGS	
	% Achieved	J:	BED OF SAND AND GRAVEL OZONE	
3°	Keyword		Definition	
2	Finite resource	A resource that can only be used once and is in limited supply e.g. crude oil		
3	Natural resource MAterials that have been made through the formation of the world e.g. ma		hat have been made through the formation of the world e.g. metal	
4	Renewable resource	Resources which will not run out in the foreseeable future, they are being made faster than they are used		
5	Synthetic resources			
6	6 Desalination The removal of salt from water. This is an energy-in		emoval of salt from water. This is an energy-intensive process.	
7	Sustainable	Sustainable An activity which does not consume or destroy resources or the environment for future generations		
8	Potable water	Water that contains a low amount of microbes and dissolved salts and has a neutral pH.		
9	Bioleaching Using bacteria to extract metals from their ores.		Using bacteria to extract metals from their ores.	
10	Phytomining Using plants to absorb metal compounds from the ground through the roots. The plants are then burned to produce an ash containing a hig concentration of the metal compounds.		ne plants are then burned to produce an ash containing a high	
11	Life cycle assessment	(LCA) A 'cradle-to-grave' analysis of the impact of a manufactured product on the environment.		
12	LCA steps			
		G AND PROCESSIN AW MATERIALS	NG 2. MANUFACTURING AND PACKAGING 3. USING YOUR PRODUCT 4. DISPOSING OF IT	
N°			Fact	
13	Potable water <u>i<b>sn't</b></u> pure! Potable water can contain a small amount of dissolved salts and microbes.			
14	The UK sources potable water from groundwater e.g. reservoirs. Hotter countries such as Australia have to desalinate sea water using distillation or reverse osmosis.			
15	There are some issues with life cycle assessments. It can be difficult to judge the impact of aspects such as pollutants and the process can be biased. The LCA may not be fully objective			

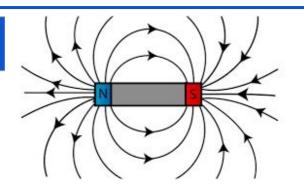
Physics

GCSE Magnets and electromagnets

Bar magnet magnetic field

1

Learned	Revised	Confident
% Achieved:		



N°	Keyword	Definition			
2	Magnetic field	The region around a magnet where another magnet, or magnetic material will experience a force due to the magnet.			
3	Permanent magnet	Produces its own magnetic field which is always there			
4	Induced magnet	An object that becomes magnetic when it is placed in a magnetic field			
5	Electromagnet	A solenoid with an iron core			
	HIGHER ONLY				
6	Motor effect	When a current carrying wire in a magnetic field experiences a force			
7	Magnetic flux density	How many field (flux) lines there are in a region			
	8 CURRENT				
N°		Facts			
10		All magnets have a north and south pole			
11	Like poles (eg. north and north, or south and south) repel each other				
12	Unlike (opposite) poles (eg. north and south) attract each other				
13	The magnetic metals are iron, steel, cobalt and nickel				
14	The closer together magnetic field lines are, the stronger the magnet				
15	Magnetic field lines always point from north to south				

