## C14 - Earth's Resources

Question	Answer
<b>Define</b> finite resources.	Occur in limited supply. Will run out.
<b>Define</b> renewable resources.	Will not run out.
<b>Define</b> sustainable development.	Development that meets the needs of current generations without compromising the needs of future generations
Define an ore.	A rock or sediment that contains metals which can be extracted.
<b>Describe</b> the difference between a high grade and low grade ore.	High grade ore = high % of the metal.
	Low grade ore = low % of the metal.
<b>Name</b> the two techniques used to extract copper from low grade ores.	Phytomining & Bioleaching
<b>Describe</b> the process of phytomining.	Burning plants to release copper compounds within their roots.
<b>Describe</b> the process of bioleaching work.	Extracting copper compounds contained in leachate solutions produced by bacteria.
Define potable water.	Safe to drink.
<b>Describe</b> the process of desalination.	Removing salt from salty water by distillation.
<b>Describe</b> why desalination is not used to obtain pure, clean drinking water.	Expensive as it requires large amounts of energy.
<b>List</b> the main stages involved in making water safe to drink.	Screening - removing large objects.
	Flocculation - adding aluminium sulphate, which makes small particles clump together and sink.
	Filtering - removing any remaining particles.
	Sterilisation - UV light, ozone and chlorine

	are added to kill bacteria.
List the main stages involved in treating wastewater.	Screening - large objects removed.  Primary treatment - solids settle out from the mixture. Sludge is piped to the storage tank for further treatment.  Secondary treatment - bacteria break down organic matter and harmful microorganisms.  Final treatment - useful bacteria are recycled.
<b>List</b> the uses of sewage slurry.	Making biogas, methane or generating electricity
What is a life cycle assessment?	Assessment of environmental impact of a product. Includes: Getting and using raw materials. Producing the product. Distributing, using and reusing product. Disposal.
<b>List</b> the products that can be reused and recycled.	Aluminium, iron, steel, copper.
<b>Describe</b> why reusing and recycling is important.	Reduces mining, conserves stocks of metals, reduces pollution.

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<b>Describe</b> the process of phytomining.	
<b>Describe</b> the process of bioleaching work.	
<b>Define</b> potable water.	
<b>Describe</b> the process of desalination.	
<b>Describe</b> why desalination is not used to obtain pure, clean drinking water.	
<b>List</b> the main stages involved in making water safe to drink.	
<b>List</b> the main stages involved in treating wastewater.	

<b>List</b> the uses of sewage slurry.	
What is a life cycle assessment?	
<b>List</b> the products that can be reused and recycled.	
<b>Describe</b> why reusing and recycling is important.	