

C12 The Earth's resources

Questions	Answers
1. What is meant by finite resource?	A resource that will run out
2. What is meant by renewable resource?	A resource that can be replaced
3. Give an example of a finite resource	Fossil fuels, metal ores, limestone for cement, crude oil
4. Give an example of a renewable resource	Crops used to make biofuel
5. What do we use the earths resources for?	Making new products and providing energy
6. How is water made fit to drink?	<ul style="list-style-type: none"> • Pass water through filter beds to remove solids • Add chlorine to remove microbes (sterilise)
7. How do you purify salty water?	desalination
8. What are the 2 methods of desalination?	Distillation and reverse osmosis
9. Give a disadvantage of distillation	Requires a lot of energy which makes it expensive
10. how does reverse osmosis separate the salty water	Using a membrane and no heat, but under pressure
11. What are the stages of sewage treatment?	<ul style="list-style-type: none"> • Screening to remove large solids • Sedimentation to produce sludge • Aerobic biological treatment of effluent to make it safe to go back into water supply
12. What happens to sewage sludge?	It is broken down by anaerobic digestion and dried - this is then used as fertiliser.
13. How to you obtain copper from low grade ore?	Phytomining – which uses plants Bioleaching – which uses bacteria
14. How do you purify copper?	Electrolysis or displacement using scrap iron
15. what is a life cycle assessment (LCA)?	Its used to assess the environmental impact of products, processes or services
16. Why do we need to recycle?	<ul style="list-style-type: none"> • Saves energy • Saves limited resources • Reduces the amount of waste