

Combined Science - Chemistry - Key Stage 4

C10 Using Resources

Review lesson

Miss Offer



Independent task

Aluminium is used to make drink cans, window frames and airplane parts, amongst many other things. Aluminium is extracted from its ore by electrolysis, which involves heating to nearly 3000°C and passing an electric current through the molten mixture. Aluminium can also be recycled.

1. Explain why aluminium is a finite resource.
2. Explain why extracting aluminium is expensive.
3. Give two benefits, other than cost, of recycling aluminium instead of extracting new aluminium from its ore.
4. Describe one problem of recycling aluminium from windows that are replaced.



Independent task – improve these statements

Incomplete/incorrect statement	Better statement
Ozone or UV light can be used to clean water	
Chlorine is added to water to get rid of bacteria	
Potable water is pure water	



Independent task – complete the table

Step	Explanation
Screening the waste water	
Sedimentation tank	
Effluent removed and treated by aerobic respiration by bacteria	
Sludge removed and treated by anaerobic respiration	

