Autumn 2

C14 The Earth's resources

Aiming for Grade 6

Extended Homework Assignment

Name: _____

Set: _____

Instructions

A printed copy should be handed into your teacher.

The knowledge required to complete this assignment will be supported in class in lessons of the half term.

C14 The Earth's resources – Aiming for Grade 6

Aims

In this activity you will produce a script for a short 'mini-programme' for television or an online video channel (and will then perform this) about potable water and how we obtain it from salt water.

Learning outcomes

After completing this activity, you should be able to:

- explain how distillation purifies water and how it can be used to desalinate water
- describe how desalination can occur using reverse osmosis and membranes.

Task

Working in a group, you are going to prepare a script for a 5-minute mini-programme about how salt water can be converted to potable water by desalination using distillation and also by reverse osmosis and membranes.

You will need to perform your mini-programme, so make sure you practise it once the script is written. You must make sure that each member of your group takes part in writing the script and performing it.

Your teacher will demonstrate how distillation is carried out to help you write your script.

You may like to organise your script into the following sections:

- Why do we need to desalinate water?
- What happens when salt water is distilled?
  - Include a diagram or photo of the apparatus.
  - Explain what happens to the water and the salt as the salt water is heated, causing pure water to be collected and the salt impurities to be left behind.
  - You could use particle diagrams to help explain how the process works.
- What happens when salt water is desalinated using reverse osmosis and membranes?
  - You could include a picture of this process.
  - You do not need to give a detailed explanation of how the process actually works.