

## Year 11 Chemistry

### C6: Chemistry Out There

### Home Learning Tasks

#### The Chemistry of Salt

You are going to research and prepare a fact sheet detailing the extraction and use of salt:

Using the internet or your home revision guide you should research the mining of rock salt and of salt solution in the UK and answer the following questions:

1. How is salt extracted from the Earth?
2. What environmental problems does this cause?
3. What are the effects of subsidence and the strategies taken to prevent it?
4. What is electrolysis?
5. How is the electrolysis of salt carried out (you need to find a diagram and describe the process).
6. What are the products of the electrolysis of molten sodium chloride?
7. At which electrode do these products appear and why
8. What are the safety issues associated with the electrolysis of molten sodium chloride.
9. What is the chemical test for chlorine?
10. What chemicals are sodium chloride an important source of?
11. What sort of household goods are made from substances derived from salt?
12. Outline how chlorine is used in water purification, bleach and plastics.
13. How is hydrogen gas used in making margarine?
14. How is soap made?