

## Extended Homework Task

### Chemistry C15 – Using our resources

Name .....

**Please hand in a completed printed version at the end of the topic**

The online text book access to support this homework can be accessed through your Kerboodle account at [www.kerboodle.com](http://www.kerboodle.com).

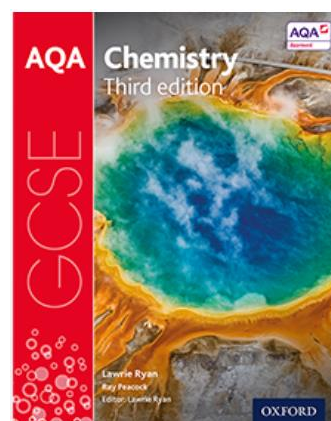
The username is your first initial and sir name (no gap).

If you have not accessed the book before the password will be the same as your username. If you have logged on before you will have changed the password to your own choice.

Click onto the science 9-1 tile and then onto the digital book.

**Resources to support this homework can be found in the online student book**

- **Using our resources pages 220 to 237**



## C15 Using our resources

### Aims

In this activity you will produce a poster explaining the importance of the Haber process and how the reaction conditions for the Haber process are chosen.

### Learning outcomes

After completing this activity, you should be able to:

- Explain why the Haber process is economically important  $\text{H}$
- Explain how the conditions for the Haber process need to be chosen to give acceptable yields whilst maintaining acceptable rates  $\text{H}$ .

### Task

You are going to produce an A4 poster that explains the importance of the Haber process and how the reaction conditions are chosen.

Your poster should include the following:

- Why the Haber process is important.
- A balanced equation showing the key reaction, the catalyst used and the conditions under which the reaction is carried out.
- A detailed explanation of why these conditions are chosen (i.e. what would the optimum conditions be, are these optimum conditions used, and if not then why not).

*(14 marks)*