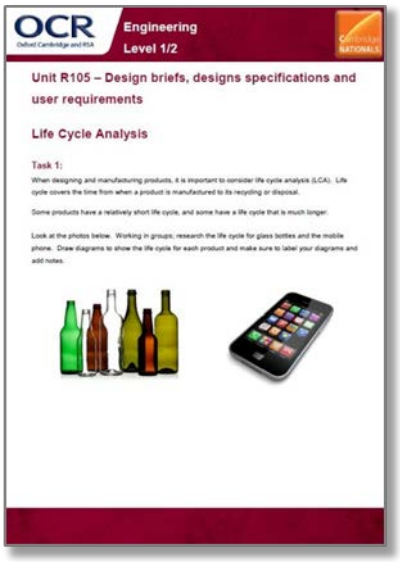
R105 – Design briefs, designs specifications and user requirements

Life Cycle Analysis

Instructions and answers for teachers

These instructions should accompany the OCR resource **'Life Cycle Analysis'** *activity which supports OCR Cambridge Nationals in Engineering.*



The Activity:

This resource comprises of 1 task.

This activity offers an opportunity for English skills development.

This activity offers an opportunity for maths skills development.

Associated materials:

'Life Cycle Analysis' activity sheet

Suggested timings:

Task 1: 1 hour

Learning Outcome 3: Know about the wider influences on the design of new products

Task 1:

The teacher may need to begin by explaining to the learners life cycle analysis (LCA) along with providing examples. Some useful information can be found on the internet at websites such as: http://www.technologystudent.com/prddes1/lifecy1.html.

In the activity, learners are required to work in groups to research and produce a life cycle analysis diagram for the glass bottle and for the mobile phone. A typical life cycle analysis diagrams for the mobile phone is show below. Other techniques and styles of diagram might be produced. The activity might also give learners the opportunity to use ICT skills to produce diagrams.