



**SCIENCE
BADGE**

AWARD TRUST

CHEMICAL & PROCESS ENGINEERING

This is a sample Chemical & Process Engineering Activity Sheet only. Its main purpose is to show you some of the interesting activities that you can do when you choose this badge. Also, you can use this sample sheet to start doing the badge activities, while your teacher is sending away for the full activity sheet and badge.

If you have completed some of these activities before your full sheet arrives, your teacher can mark this sheet, then transfer the marks to the full activity sheet.

Sample Chemical & Process Engineering Activity Sheet

Rating	Chemical & Process Engineering Activities	Teacher's initials and date
7 *	Find out what LPG and CNG are. For an extra star design a poster showing how they are produced and used.	
8 **	Find four different types of paper e.g. newsprint, toilet paper, paper bag, photocopy paper. Measure and record how hard they are to tear when dry and when wet. Look at each under a microscope or magnifying glass and report how they differ. Record your results on a chart.	
11 **	Write a report on what dialysis is and how it is used to cleanse the blood of kidney patients.	
14 **	Make a poster explaining how instant milk powder or instant coffee is made. Look at some of the particles magnified. Draw and explain the shapes that you see.	
16 *	Make a presentation of articles relating to engineers or manufacturing processes.	
21 **	New Zealand has a large dairy industry which exports milk powder and other dairy products overseas. Explain, with labelled diagrams, how milk powder, butter and cheese are made from milk.	

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