



LEVEL 2 - ENGINEER

DO FOUR OF THE FOLLOWING



1	Name and explain the use of seven different kinds of machines or appliances such as a radio, sewing machine, dishwasher, food processor or mixer, juicer, toaster, dynamo, electric light, PA system, TV, video or CD/DVD player.	
2	Explain the functions of the following:	
	a. telephone or electric wires.	
	b. fibre optics and cabling.	
	c. antennae.	
3	Draw one of the following and explain how it works.	
	a. radar systems.	
	b. satellite communication systems.	
	c. sonar systems	
	d. GPS navigation systems.	
4	Make a gadget for a specific function, which moves with many moving parts, and explain the function of your gadget.	
5	Draw up plans (top and side views) for a machine with many moving parts and power source. Explain the function of the moving parts and how they work as an integrated unit.	
6	Build a flashing device using a light-emitting-diode (LED) and explain the function of your device.	
7	List two engineering discoveries which have been, in your opinion, of benefit to mankind. List two engineering discoveries which have been, in your opinion, harmful to mankind. Explain your opinions by talking about your research, any evidence you have found and the reasons for your conclusions.	

EXAMINER:

DATE COMPLETED:

CUBS TESTED			