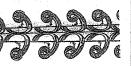
*70	Given on the due date 5	vork	Neatness 5		Communicate	Evaluate	Design 10	Investigate 10	TECHNOLOGY Design and build a head torch	Name:	
				AND THE RESIDENCE OF THE PARTY					70 MARKS	Grade 9:	



Instructions

- Answer all the questions
- Write neatly and clearly.
- All sketches or drawings must be done in pencil with labels in pen.
- Write your name, class and the initial of your teacher on your answer sheet.
- Number the questions as they appear on the question paper.
- 6. Read the questions and instructions for each question carefully.

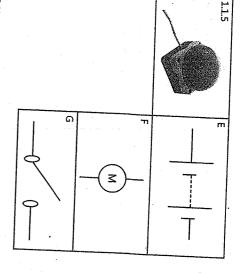
Question 1 [13 marks]

1.1 Match the actual components in Column A to the component symbols in Column B. Write only the number of the question and the correct letter from Column B.

1.1.4 OFF	1.1.3	1.1.2	General States	Column A Actual component
	c G		* 	Column B Component symbol

CRADE 9 (SCHWBJD)

DONE IN NOTEBOOK



- 1.2 Use a pencil to draw an electrical circuit diagram that consists of the following components: G
- Two cells in series

One switch

Two bulbs in parallel

1.3 A generator has a resistance of 15 Ω and it generates a current of 2A. Calculate the voltage that it will supply. ω

Question 2 [9 marks]

- 2.1 Explain the following terms that are associated with switches: 2.1.1 Throw (2)
- 2.1.2 Pole
- 2.2 Explain how the following electronic components function: 2.2.2 LED 2.2.1 Diode **£**
- 2.3 Classify the following into input, control or output devices: 2.3.1 Thermistor

 $\overline{\omega}$

- 2.3.2 LED
- 2.3.3 Solar cell



Question 3 [8 marks]

- 3.1 Draw an equivalent circuit for the logic gate on the left:
- 3.2 Use your knowledge of series and parallel circuits and logic connected so that they can be used as panic buttons for an alarm gates and design a circuit that has three switches that must be ত ω

TECHNOLOGY GRADE 9