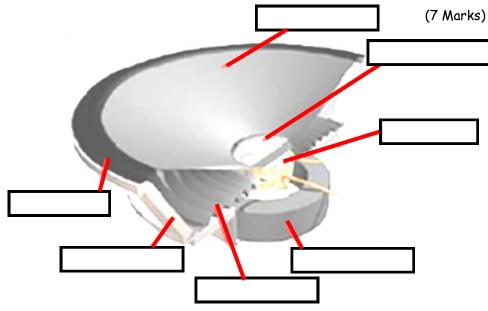
Task 5

On a piece of A4 paper, draw the speaker shown here.

Label the different parts using the words below:

Magnet; Voice Coil; Basket; Suspension; Spider; Dust Cap; Diaphragm

(3 Marks)



Next to your speaker diagram, **explain**, in your own words, how speakers work. (10 Marks)

Your teacher will mark your ILA and award marks for each correct answer. The number of marks is clearly shown on each task. There are 6 additional marks available for quality and presentation.

Level 2	Level 3	Level 4		
0 - 22 Marks	23 - 32 Marks	33 - 44 Marks		
Level 5	Level 6	Level 7		
45 - 58 Marks	59 - 67	68 - 75		
Exceptional Performance (EP) level: 76 - 80 Marks				





Design and Technology

INDEPENDENT LEARNING ACTIVITY.



NAME:	You have achieved a level on this
PD GROUP:	ILA. In order to progress to the next level you should
TECH GROUP:	
DATE DUE IN:	To:

Task 1: Basic Electrical Principles

To be successful, you should write neatly in full sentences, one word answers will not receive any marks.

On a sheet of A4 paper answer the following questions:

- What does the term voltage mean? (1 Mark)
 What is the unit for voltage? (1 Mark)
- What is the unit for voltage?
 What is the symbol for voltage?
- 4. What does the term current mean?
- 5. What is the unit for current?
- 6. What is the symbol for current?
- 7. Describe what the term conductor means and provide an example?

(2 Marks)

(2 Marks)

(1 Mark)

8. Describe what the term Insulator means **and** provide an example?

9 W/h	at does the	term resi	stance mean?	

- 10. What is the unit for resistance?
- 11. What is the symbol for resistance?
- 12. What is the unit for power?

Task 2: Resistor Colour Codes

The function of a resistor is to oppose the flow of current in a circuit. Resistors have different values of resistance to the flow of current. Complete the table shown below with the correct resistor values (include the units). The first one has been done for you.

Colour Coding	Resistor Value	BLACK	0
Red, Blue, Green	265 Ω	BROWN	1
Red, Red, Black		RED	2
Green, Red, Brown		ORANGE	3
Violet, Orange, Orange		YELLOW	4
Blue, Black, Black		GREEN	5
Red, Green, Green		BLUE	6
Gray, Violet, Red		VIOLET	7
Yellow, Brown, Yellow		GREY	8
Orange, Red, Red		WHITE	9
Orange, Orange, Orange		/9 M	N arks

