NAME:	FORM/GROUP

DESIGN AND TECHNOLOGY REVISION BOOKLET

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SMART MATERIALS AND MODERN MATERIALS

AROMA PIGMENTS PHOSPHORESCENT PIGMENT METAL FOAMS AND THEIR PRACTICAL APPLICATION FLEXI PLY (A FLEXIBLE FORM OF PLYWOOD

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SUITABLE REVISION MATERIAL FOR:

PRODUCT DESIGN RESISTANT MATERIALS **GRAPHIC PRODUCTS DESIGN AND TECHNOLOGY**

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AROMA PIGMENTS

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LINK TO HELP AND INFORMATION

https://www.technologystudent.com/joints/aroma1.html

1a. What are Aroma Pigments? 3 marks
1b. How do aroma stickers work? (You should mention micro-spheres in your answer). 3 marks
1c. Describe a practical application of an aroma pigmented sticker. Include a diagram to explain the practical application. 3 marks sketch(s) 3 marks notes

AROMA PIGMENTS - CONTINUED

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https://www.technologystudent.com/joints/aroma1.html

2a. Briefly describe two other ways in which aroma pigments can be used. 2x 2 marks
<u>A</u> .
B.
2b. How could aroma pigments be used in a practical situation outdoors? (Not inside or in arenclosed area). Use a diagram(s) and notes to explain your practical application of aroma bigments. This should be a new practical application. 4 marks sketch(s) 4 marks notes
SKETCH(S)
<u>NOTES</u>

SMART MATERIALS - PHOSPHORESCENT PIGMENT - QUESTIONS

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3a. What is phosp in your answer.	phorescence? Include a description of a practical example / application 5 marks
3b. What are ph	nosphorescent pigments made from ? 3 marks
· 	
	3c. The sports watch shown opposite contains phosphorescer pigment. How will this effect the product? 2 marks
9:15	
	r signs shown opposite are thy is this an important feature? FIRE EXTINGUISHER
	FXIT

METAL FOAMS AND THEIR PRACTICAL APPLICATION

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https://www.technologystudent.com/joints_flsh/metalfoam1.html

answer. 6 marks		
	NOTES	SKETCH
	pe / explain the physical	properties of metal foams. <i>4 marks</i>
	oractical applications of n	netal foams. Use notes and sketches.
x 3 marks	oractical applications of n	netal foams. Use notes and sketches. SKETCHES
x 3 marks	oractical applications of n	
x 3 marks	oractical applications of n	
x 3 marks	practical applications of n	
x 3 marks	practical applications of n	
x 3 marks	practical applications of n	
x 3 marks	practical applications of n	
x 3 marks	practical applications of n	
c. Describe two points and the second	practical applications of n	

METAL FOAMS AND THEIR PRACTICAL APPLICATION

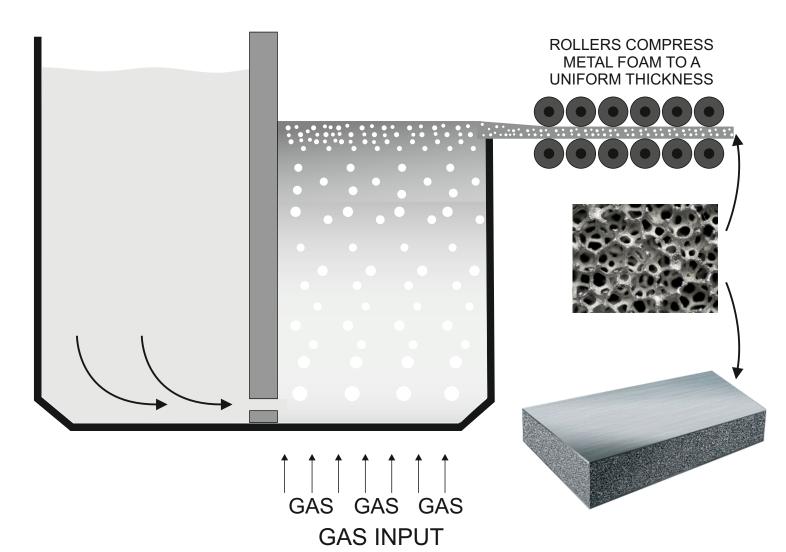
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LINK TO HELP AND INFORMATION https://www.technologystudent.com/joints_flsh/metalfoam2.html

5. Complete the explanatory notes, diagram a d labels, showing the manufacture of Aluminium Metal Foam. 14 marks

PRIMARY TANK	SECONDARY TANK	ROLLERS



FLEXI PLY (A FLEXIBLE FORM OF PLYWOOD)

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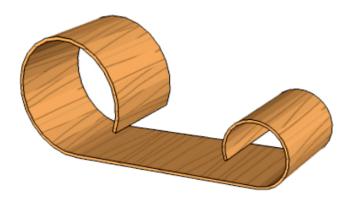
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LINK TO HELP AND INFORMATION

https://www.technologystudent.com/despro flsh/flexply1.html

6a. Describe the main advantage of flexi ply, over other forms of manmade boards? Use notes and sketches in your answer. 3 marks notes 3 marks sketche(s)



6b. Describe how the permanent form/shape seen opposite, could be manufactured from several layers of flexiply. Use labelled sketches and notes.

3 marks notes 3 marks sketch(s)

6c. Using the Internet, collect four images of pieces of furniture, manufactured from flex ply. For each piece of furniture, write your thoughts on the design. **2** *x* **4** *marks*