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Please write clearly in	block capitals.		
Centre number		Candidate number	]
Surname			 -
Forename(s)			-
Candidate signature			

# A-level DESIGN AND TECHNOLOGY: PRODUCT DESIGN

Paper 1 Technical Principles

Friday	7	June	2019
Thuuy	'	June	201/

Morning

## Time allowed: 2 hours 30 minutes

#### Materials

For this paper you must have:

- normal writing and drawing instruments
- a scientific calculator.

#### Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided.
- Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 120.

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–8	
9	
10–11	
12	
13–15	
16–17	
18–19	
20–21	
22	
TOTAL	





Answer <b>all</b> questions in the spaces provided.				
0 1	Explain why 'potatopak' is a suitable material for the manufacture of disposable	cutlery. [3 marks]		
02	Explain how BSI certification impacts on the purchase of a child's car seat by a c	consumer. <b>[6 marks]</b>		



Do not write outside the box

Give three benefits of using stock forms of material for a manufacturer. 0 3 [3 marks] 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 PAR is a stock form of timber. What does PAR stand for? 0 4 [1 mark] Turn over for the next question

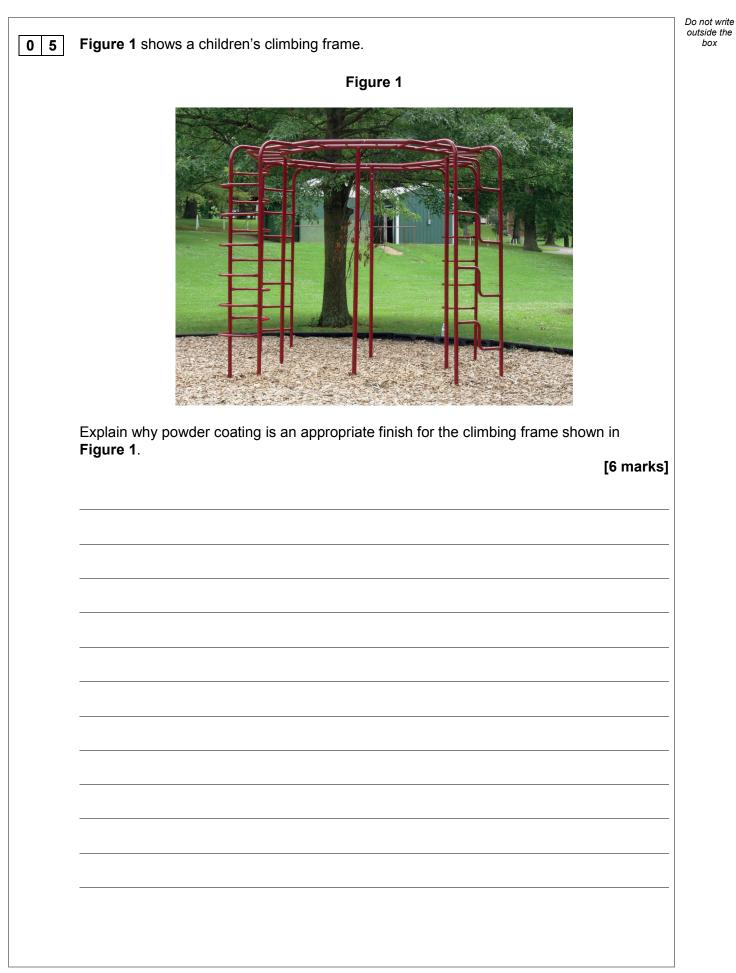


Turn over ►

13

Do not write outside the

box

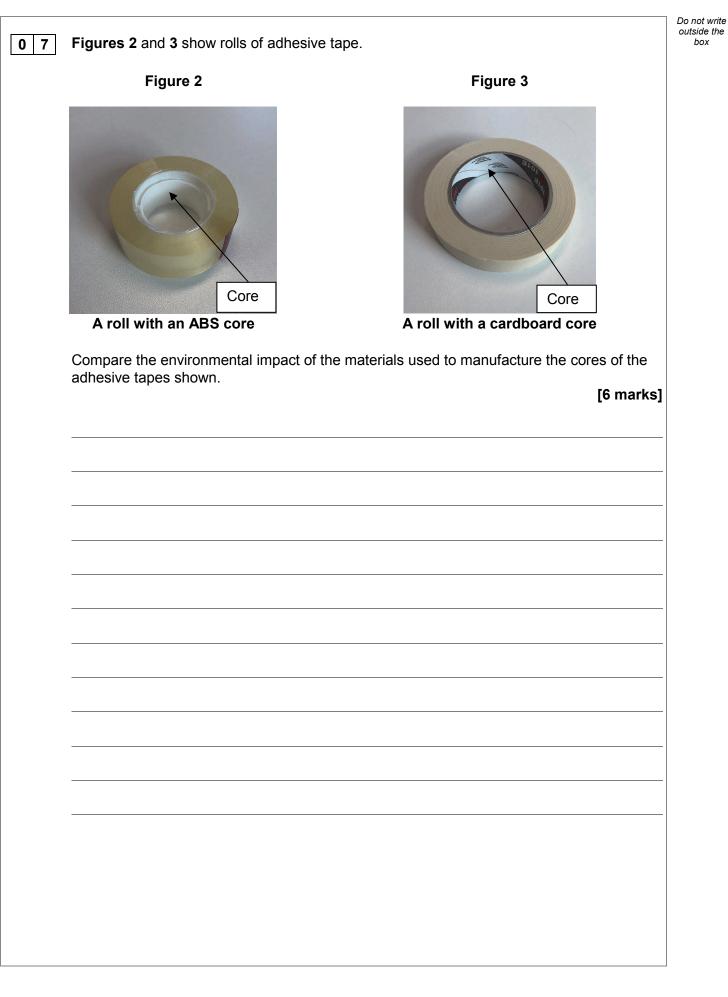




box

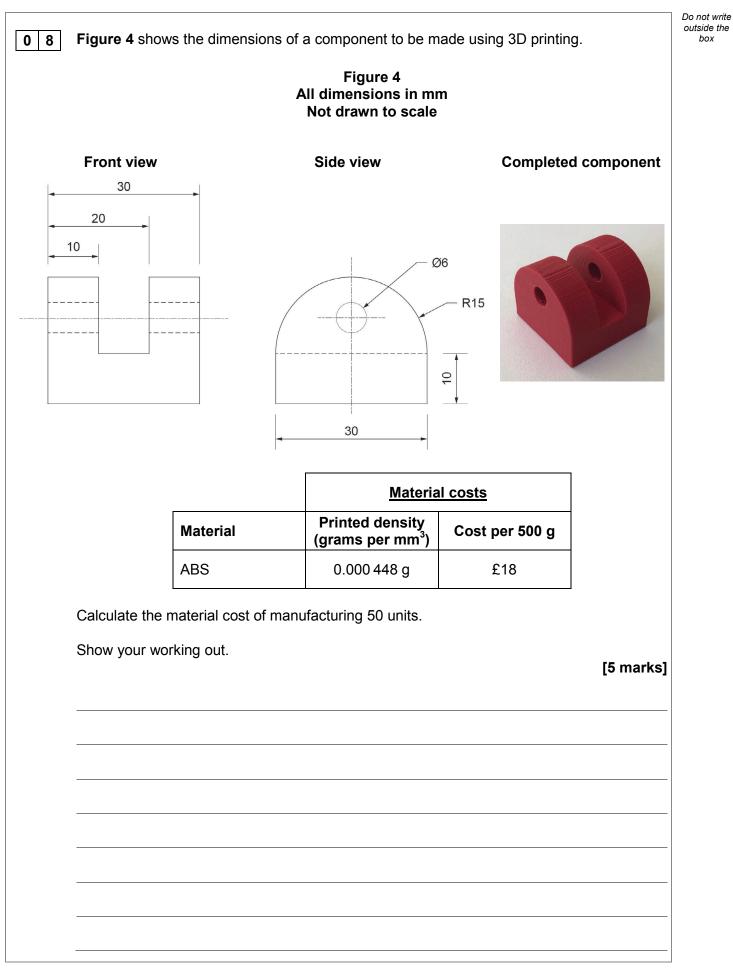






6







IB/G/Jun19/7552/1

Do not write outside the box

	Name a constitution for each of the following compliant materials:
09	Name a specific application for each of the following compliant materials:
	bleed proof paper
	duplex card
	<ul> <li>moulded paper pulp.</li> </ul>
	[3 marks]
	Bleed proof paper
	Duplex card
	Moulded paper pulp



1 0	Evaluate the following techniques for rendering a design:	Do not write outside the box
	<ul><li>using computer aided design (CAD)</li><li>hand generated.</li></ul>	
	[6 marks]	
	Turn over for the next question	6
	Turn over ►	

