



Paper 1 Sample B

Set C: Design a holder that will keep car cleaning items in one place and ready for use

- 1 Car owners use a variety of cleaning materials when cleaning their cars.



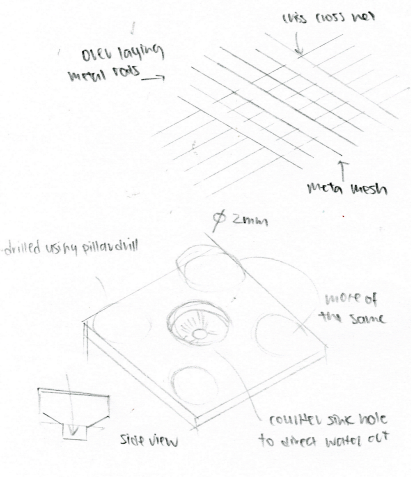
Design a holder that will keep car cleaning items in one place ready for use.

- (a) List **four** additional points about the function of such a holder that you consider to be important. [4]
- (b) Use sketches and notes to show **two** methods of allowing water to drain from the bottom of the holder. [4]
- (c) Develop and sketch **three** ideas for the holder. [12]
- (d) Evaluate your ideas and justify why you have chosen **one** idea to develop more fully. [8]
- (e) Draw, using a method of your own choice, a full solution to the problem. Include construction details and important dimensions. [12]
- (f) Suggest **two** suitable specific materials for your solution and give reasons for your choice. [4]
- (g) Outline a method used to manufacture **one** part of your solution. [6]

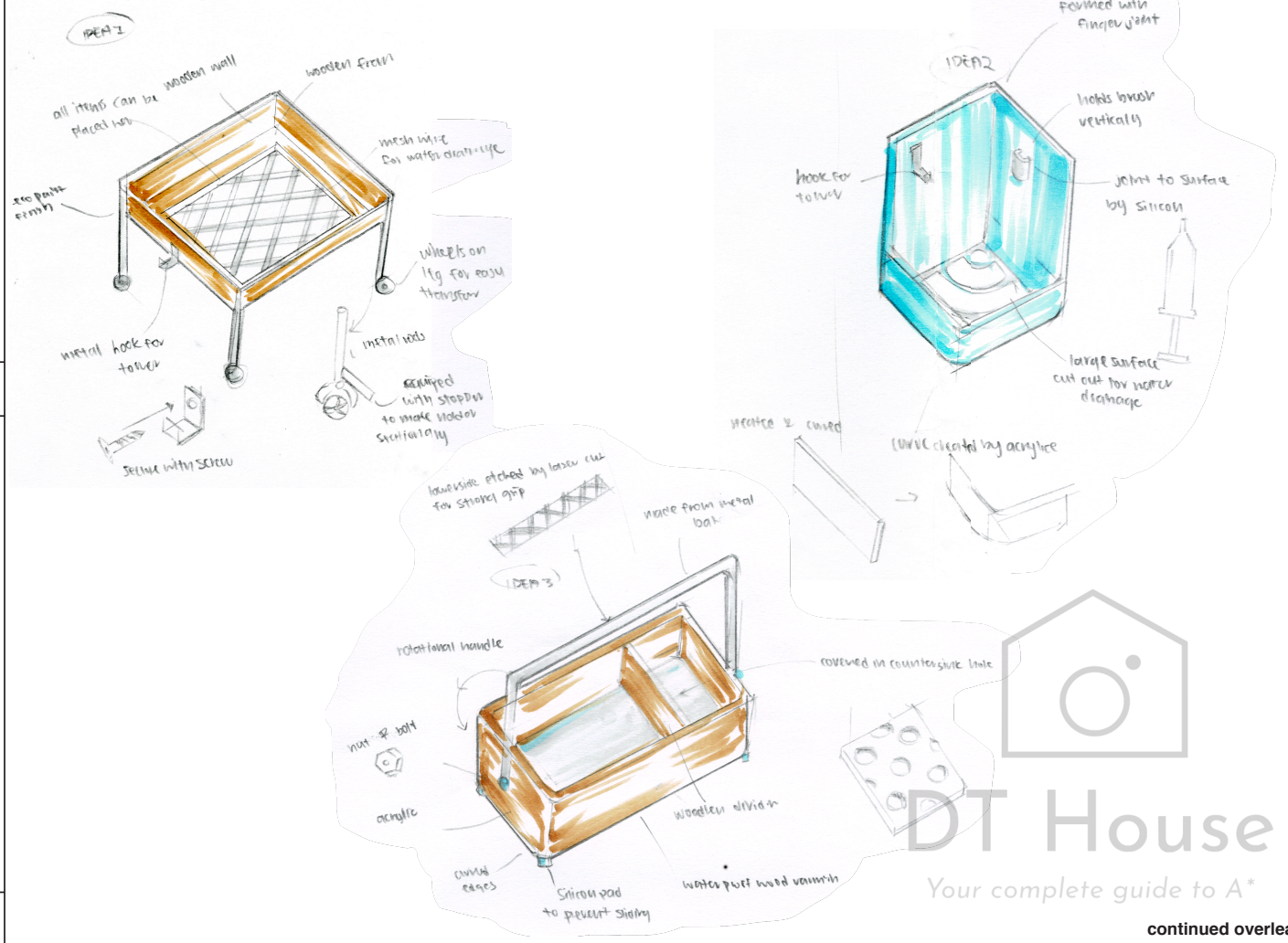
(a) Answer part (a) here. [4]


- 1. Water-proof.....
- 2. Slip proof (strong grip).....
- 3. Portable for in and outdoor.....
- 4. Easy to access.....

(b) Answer part (b) here. [4]



(c) Develop and sketch three ideas. [12]





Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY
Paper 1 Product Design
Answer Sheet 1 of 2

0445/11
October/November 2019

Answer sheet 1 of 2.
Write your centre number, candidate number and name in the spaces provided on this sheet and sheet 2.
Write the number of the question you have answered in the space provided.
Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

Centre Number	0788	For Examiner's Use
Candidate Number	27362	
Name	Jolyn Yin	
Question Number	1	

part (c) continued.

(d) Evaluate your ideas. [6]

Idea 1 + Easy to transport with wheels

- No specialized compartments

Idea 2 + Allows brushed to be hanged - no damage to brush tip and for drying

- Bulky and difficult to transport

Idea 3 + handle allows easy transport

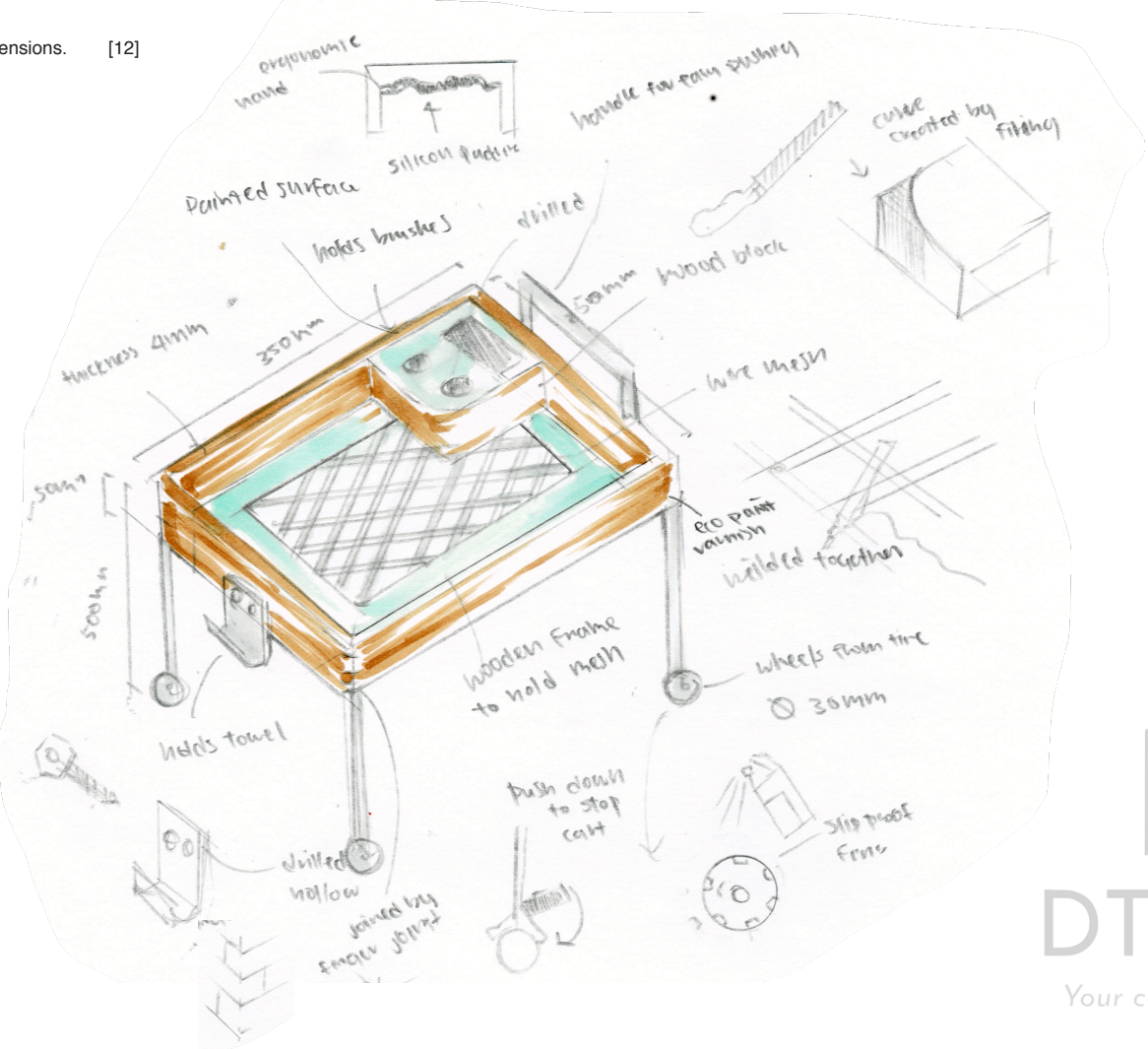
- Too heavy - made mostly from hard wood

Identify your chosen idea and give reasons for your choice. [2]

Chosen idea I have chosen Idea 1 because it is the easier to transport compared

Reasons to other ideas and the mesh base makes it easy to clean when paint
spatters on it.

(e) Draw the full solution to the problem here.
Include construction details and major dimensions. [12]



DT House
Your complete guide to A*



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY
Paper 1 Product Design
Answer Sheet 2 of 2

0445/11
October/November 2019

Answer sheet 2 of 2.
Write your centre number, candidate number and name in the spaces provided on this sheet and sheet 1.
Write the number of the question you have answered in the space provided.
Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

Centre Number 0788
Candidate Number 27362
Name Jolyn Yin
Question Number 1

For Examiner's Use

(f) Answer part (f) here. [4]

1. Material Stainless Steel

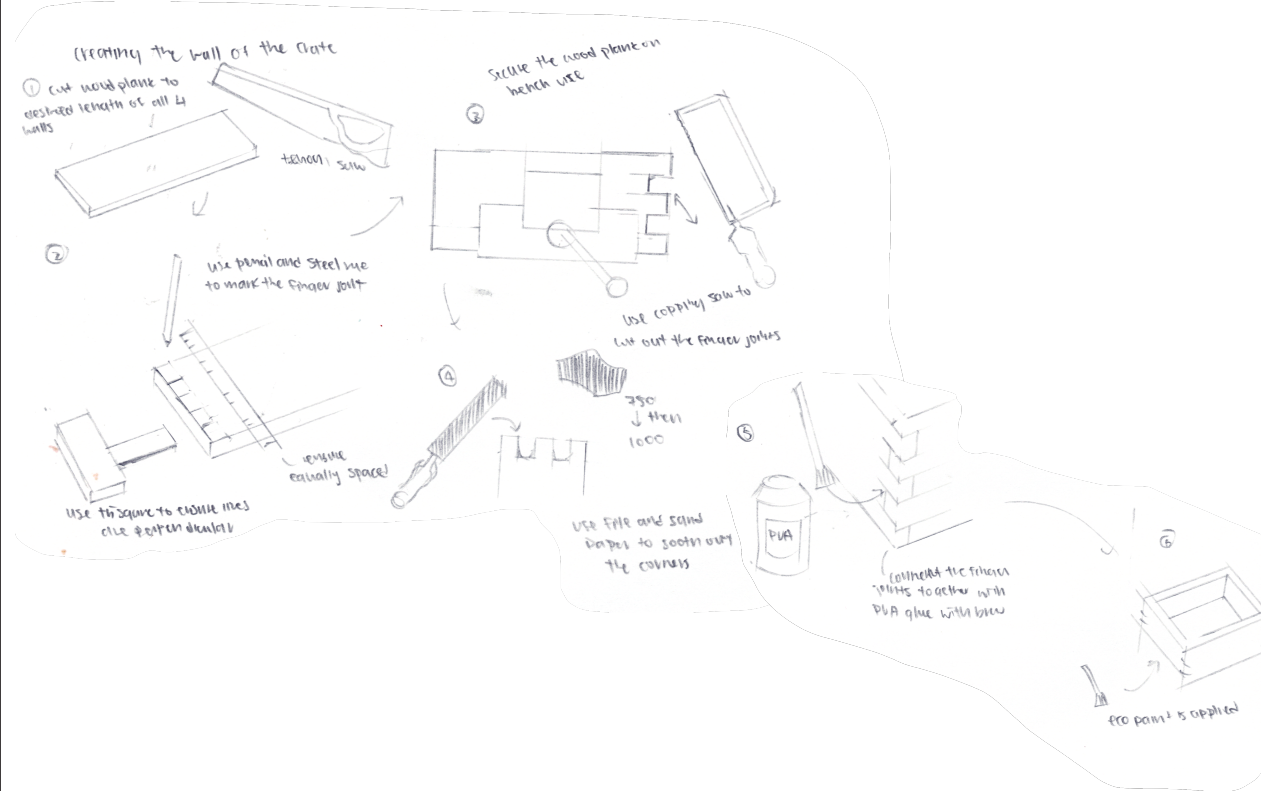
Reason Resist corrosion from water during rain, strong, durable

2. Material Teak

Reason Resistant to moisture, strong, attractive straight grain, heavy which provides sturdiness to structure

There is no need to write or draw here unless you wish to continue another part of the question.

(g) Answer part (g) here. [6]



- 1 Car owners use a variety of cleaning materials when cleaning their cars.



Design a holder that will keep car cleaning items in one place ready for use.

- (a) List **four** additional points about the function of such a holder that you consider to be important. [4]
- (b) Use sketches and notes to show **two** methods of allowing water to drain from the bottom of the holder. [4]
- (c) Develop and sketch **three** ideas for the holder. [12]
- (d) Evaluate your ideas and justify why you have chosen **one** idea to develop more fully. [8]
- (e) Draw, using a method of your own choice, a full solution to the problem. Include construction details and important dimensions. [12]
- (f) Suggest **two** suitable specific materials for your solution and give reasons for your choice. [4]
- (g) Outline a method used to manufacture **one** part of your solution. [6]

(a) Answer part (a) here. [4]

1. Water-proof

2. Slip proof (strong grip)

3. Portable, for in and outdoor

4. Easy to access

(b) Answer part (b) here. [4]

(c) Develop and sketch three ideas. [12]

Question	Answer	Marks
1(a)	Accept any four additional suitable points – easy to access, lightweight, stackable, portable, stands by itself, waterproof, place to hang leather. AOV 1 × 4	4
1(b)	Accept drawings of any two draining methods – through holes, slots, cut away edge, grill, inclined surface. AOV 2 × 2	4

Question	Answer	Marks
1, 2 and 3(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer. Communication Simple drawings displaying a low standard or limited range of techniques. 0–2 Clear drawings displaying a good standard and a range of techniques – shading, colour, annotation. 3–4 High quality drawings using a wide range of techniques with clear annotation and detail. 5–6	6
	Suitability Simplistic designs showing outlines only. 0–2 Rather more detail, sensible solutions that could work. 3–4 Accurate solutions, good fitness for purpose, construction detail. 5–6	6

part (c) continued.

(d) Evaluate your ideas. [6]

- Idea 1

+ Easy to transport with wheels

- No specialized compartments
- Idea 2

+ Allows brushed to be hanged - no damage to brush tip and for drying

- Bulky and difficult to transport
- Idea 3

+ handle allows easy transport

- Too heavy – made mostly from hard wood

(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each.	6
	Selection and justification.	1+1 2

Identify your chosen idea and give reasons for your choice. [2]

Chosen idea

I have chosen Idea 1 because it is the easier to transport compared

Reasons

to other ideas and the mesh base makes it easy to clean when paint

spatters on it.

(f) Answer part (f) here. [4]

1.

Material

Stainless Steel
- Reason

Resist corrosion from water during rain, strong, durable
2.

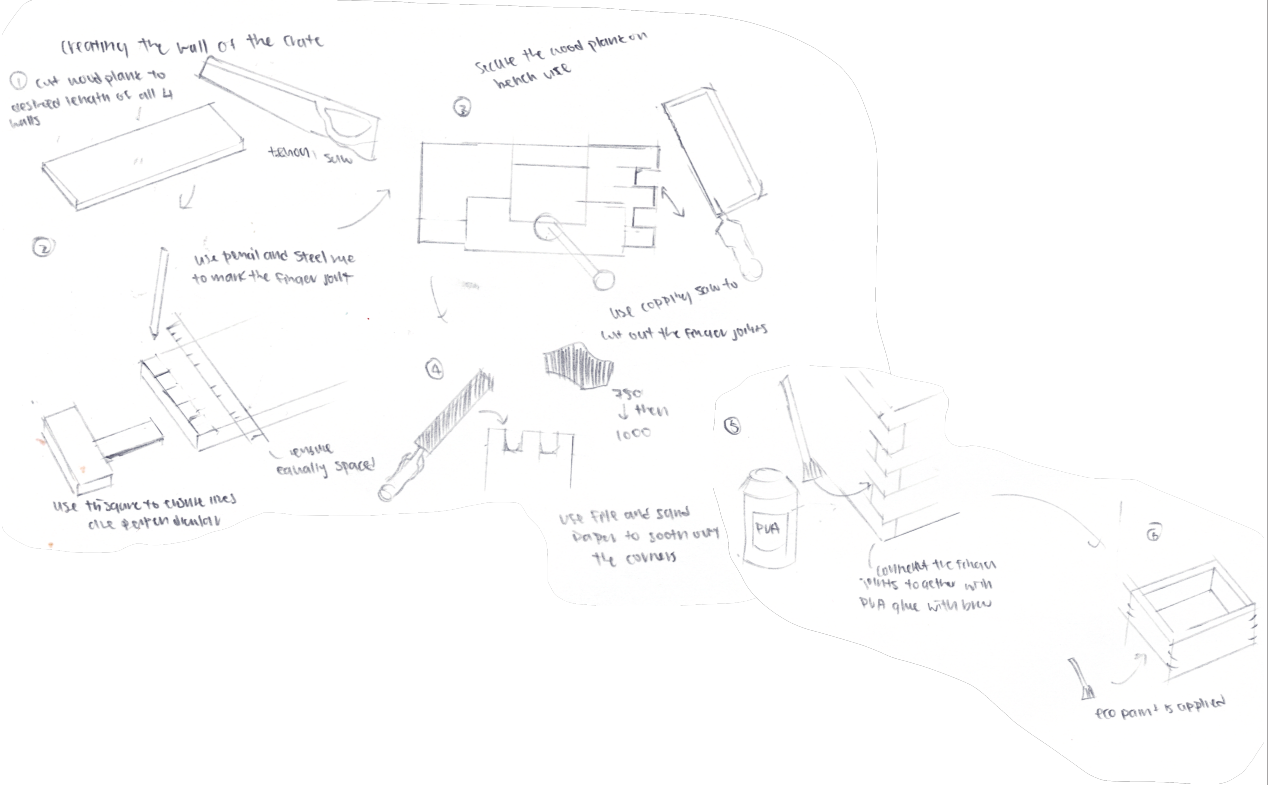
Material

Teak
- Reason

Resistant to moisture, strong, attractive straight grain, heavy which provides sturdiness to structure

There is no need to write or draw here unless you wish to continue another part of the question.

(g) Answer part (g) here. [6]



(f)	Suitable specific materials stated.	1+1	4
	Appropriate reasons for choice.	1+1	
(g)	Suitable method described.	1	6
	Good detailed description of: processes tools	0-3 0-2	