



ATAR course examination, 2020 Question/Answer booklet

| MATERIALS |
|-------------------|
| DESIGN AND |
| TECHNOLOGY |
| Section Three |

Place a tick (✓) in one of the following boxes to indicate your examination context

Wood

Metal

Textiles

Number of additional

Time suggested for this section

WA student number:

Suggested working time for this section: ninety minutes

Materials required for this section

To be provided by the supervisor

This Question/Answer booklet

To be provided by the candidate

Standard items: pens (blue/black preferred), pencils (including

In figures

In words

coloured), sharpener, correction fluid/tape, eraser,

ruler, highlighters

Special items: up to three calculators, which do not have the capacity to create or store

programmes or text, are permitted in this ATAR course examination

Important note to candidates

No other items may be taken into the examination room. It is **your** responsibility to ensure that you do not have any unauthorised material. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

answer booklets used

(if applicable):

Structure of the examination

The Materials Design and Technology ATAR course examination consists of a written component and a practical (portfolio) component.

Structure of this paper

| Section | Number of questions available | Number of questions to be answered | Suggested working time (minutes) | Marks available | Percentage of written examination |
|--|-------------------------------|------------------------------------|----------------------------------|--------------------|-----------------------------------|
| Section One Short answer | 3 | 3 | 20 | 41 | 15 |
| Section Two Extended answer | 4 | 4 | 40 | 36 | 25 |
| Section Three Candidates to choose one of the following contexts: Wood Metal Textiles | 6 | 6 | 90 | 72 | 60 |
| | | | | Total | 100 |

Instructions to candidates

- 1. The rules for the conduct of the Western Australian external examinations are detailed in the *Year 12 Information Handbook 2020: Part II Examinations*. Sitting this examination implies that you agree to abide by these rules.
- 2. Write your answers in this Question/Answer booklet.
- 3. Answer the questions according to the following instructions.
 - Section Three: Answer all of the questions within your context: Wood, Metal or Textiles.
- 4. You must be careful to confine your answers to the specific questions asked and to follow any instructions that are specific to a particular question.
- 5. Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Section Three: Sectionalised and extended answer

60% (72 Marks)

You are required to choose **one** of the following options, according to the context you have studied in 2020.

Tick one of the boxes below to indicate your choice of context.

| Context | ✓ | Question | Pages |
|----------|---|----------|-------|
| Wood | | 8–13 | 4–17 |
| Metal | | 14–19 | 18–31 |
| Textiles | | 20–25 | 32–45 |

Now turn to the relevant pages and answer the questions for the context you have studied.

Section Three: Wood context 60% (72 Marks)

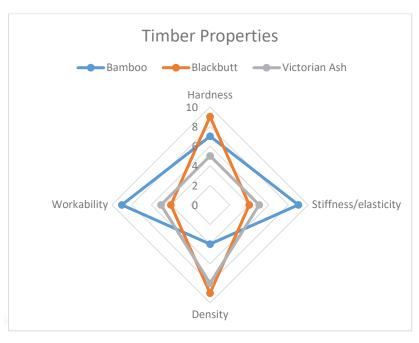
This section contains **six** questions. Answer **all** questions.

Suggested working time: 90 minutes.

Question 8 (18 marks)

The designer of this chair has used the processes of steam bending and laminating to create the curves and twists in the timber pieces. Consider this information and the data in the radar chart below when answering the question parts.

For copyright reasons this image cannot be reproduced in the online version of this document, but may be viewed at the link listed on the acknowledgements page.



| (a) | With reference to the radar chart, identify which timber would be most suitable for t | | | |
|-----|---|-----------|--|--|
| ` ' | chair and justify your selection against the other timbers available. | (5 marks) | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Select one of the four properties from the radar chart a annotate a method for testing that property. | (6 ו |
|--|------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Question 8 (continued)

| Outline three fa | actors you must consider to e | ensure reliability of test | t results. | (3 ma |
|-------------------------|---|----------------------------|----------------|------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | nesive and explain the propert | | suitable to la | |
| | nesive and explain the propert er together to make the curve | | suitable to la | |
| | | | suitable to la | |
| | | | suitable to la | aminate (4 ma |
| | | | suitable to la | |
| | | | suitable to la | |
| | | | suitable to la | |
| | | | suitable to la | |
| | | | suitable to la | |
| | | | suitable to la | |

This page has been left blank intentionally

Question 9 (9 marks)

Health and safety is a priority when using the machine pictured.



Pedestal drill

| Out on. | ine three safety checks that | should be carried | d out on the machine | before switching it (3 marks |
|------------|-------------------------------------|-------------------|----------------------|---------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| dent is using a 30 mm Forstner bit to drill a hole and wants to stop drilling a mm. Describe how this process could be completed accurately. | at a depth (2 marks) |
|--|-------------------------|
| | |
| | |
| | |
| ne four strategies that a company could implement to establish and mainta culture. | nin a safe (4 marks) |
| | |
| | |
| | |
| | |
| | |
| | |

| Question 10 | (16 marks) |
|-------------|------------|
|-------------|------------|

| (a) | Complete the table for three finishes and state how it enhances and protects the | ne |
|-----|--|-----------|
| | appearance of timber. | (6 marks) |

| Name of finish | Enhance and protect the timber |
|----------------|--------------------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

|) | Using an example, outline three ways in which finishes add value to products. | (4 marks |
|---|--|----------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| (c) | The development of new materials impacts how products can be used by desig consumers. Explain two ways in which new materials generate innovation and new design possibilities. | |
|-----|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| uestion 11 | (11 mark |
|--|--|
| small-scale manufacturer has p orkshop. | ourchased new CNC technology for their furniture-making |
| Define the term CNC. | (2 mark |
| | |
| | |
| List three advantages and new technology. | d three disadvantages to the manufacturer of investing in this (6 mark |
| Advantag | pes Disadvantages |
| One: | One: |
| | |
| | |
| Two: | Two: |
| | |
| | |
| | |
| Three: | Three: |
| | |
| | |

| Identify one CNC machine used in the furniture-making industry and explain he | |
|---|---------|
| works. | (3 mark |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Question 12 (8 marks)

The hall table shown below is made of 42 x 42 DAR pine.

For copyright reasons this image cannot be reproduced in the online version of this document, but may be viewed at the link listed on the acknowledgements page.

(a) The pine is available from several suppliers. Complete the table below to calculate the cost per metre for each supplier. Round the costs to the nearest cent.

(2 marks)

| Supplier | Length size (metres) | Price per length | Cost per metre (\$) |
|----------|----------------------|------------------|---------------------|
| А | 3.6 | \$17.40 | \$4.83 |
| В | 3.6 | \$18.51 | |
| С | 3.9 | \$19.05 | |

(b) The pine will be purchased from Supplier A. Complete the cutting list below and calculate the cost of the materials to manufacture the hall table. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part name | Number required | Length | Cost of part(s) |
|-------------|-----------------|--------|-----------------|
| Long rails | 4 | 850 mm | |
| Short rails | 4 | 200 mm | |
| Legs | 4 | 762 mm | |

The manufacturer has decided to produce the hall table in another size.

(c) Complete the adjusted cutting list below and calculate the cost of the materials to manufacture the hall table. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part name | Number required | Length | Cost of part(s) |
|-------------|-----------------|---------|-----------------|
| Long rails | 4 | 1210 mm | |
| Short rails | 4 | 250 mm | |
| Legs | 4 | 790 mm | |

Question 13 (10 marks)

The manufacture of goods has altered significantly and continues to grow and change. Companies design and use new technologies and materials to improve products, reduce costs and increase profits to be competitive. These innovations have changed the way humans are involved in manufacturing processes. In the global era, societal attitudes and standards of human rights and ethical work have changed.

| Outline five ethical issues Australian manufacturers face and how they manage the ethical production of their goods. | | | | |
|---|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| WOOD CONTEXT | 17 | MATERIALS DESIGN AND TECHNOLOGY |
|--------------|----|------------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Section Three: Metal Context 60% (72 Marks)

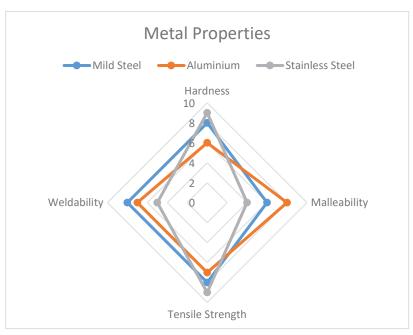
This section contains **six** questions. Answer **all** questions.

Suggested working time: 90 minutes.

Question 14 (18 marks)

The designer of this bar chair has used the process of tube bending to create the curves out of tubular metal section. Consider this information and the data in the radar chart below when answering the question parts.

For copyright reasons this image cannot be reproduced in the online version of this document, but may be viewed at the link listed on the acknowledgements page.



| chair and justify yo | ur selection against the other metals ava | ilable. (5 |
|----------------------|---|------------|
| | • | , |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Select one of the four properties from the radar chal annotate a method for testing that property. | (6) |
|--|-----|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Question 14 (continued)

| State a joining method for metal that would be suitable to manufacture the bar chair identify three benefits of using this method over others. (4 r | Outline three fa | actors you must consid | ler to ensure reliab | ility of test results | . (3 n |
|--|-------------------------|------------------------|----------------------|-----------------------|---------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | e bar chair (4 n |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |
| | | | | o manufacture the | |

This page has been left blank intentionally

Question 15 (9 marks)

Health and safety is a priority when using the machine pictured.



Pedestal drill

| (b) | A student is using the machine to drill a 10 mm diameter hole in 6 mm thick mild stee and notices that the drill bit overheats and does not cut properly. Describe how this | | | |
|-----|---|--------------------------|--|--|
| | problem could be overcome. | (2 marks) | | |
| | | | | |
| | | | | |
| | | | | |
| (c) | Outline four strategies that a company could implement to establish and maint work culture. | tain a safe (4 marks) | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Question 16 | (16 marks) |
|-------------|------------|
|-------------|------------|

| (a) | Complete the table for three finishes and state how it enhances and protects the | ne |
|-----|--|-----------|
| | appearance of the metal. | (6 marks) |

| Name of finish | Enhance and protect the metal |
|----------------|-------------------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Using an example, outline three ways in which finishes add value to products. | (4 marks) |
|--|-----------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| (c) | The development of new materials impacts how products can be used by design consumers. Explain two ways in which new materials generate innovation and new design possibilities. | |
|-----|---|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Ques | stion 17 | (11 marks) |
|------|---|---|
| | all-scale manufacturer has purchased new CN | C technology for their metals fabrication |
| (a) | Define the term CNC. | (2 marks) |
| | | |
| | | |
| (b) | List three advantages and three disadvantages new technology. | ges to the manufacturer of investing in this (6 marks) |
| | Advantages | Disadvantages |
| | One: | |
| | | |
| | | |
| | Two: | Two: |
| | | |
| | | |
| | Three: | Three: |
| | | |
| | | |
| | | |

| c) | Identify one CNC machine used in the metal-fabrication industry and explaworks. | ain how it (3 marks) |
|----|--|-------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

Question 18 (8 marks)

The hall table shown below is made out of 20 x 20 ERW mild steel square tubing.

For copyright reasons this image cannot be reproduced in the online version of this document, but may be viewed at the link listed on the acknowledgements page.

(a) The tubular steel is available from several suppliers. Complete the table below to calculate the cost per metre for each supplier. Round the costs to the nearest cent.

(2 marks)

| Supplier | Length size (metres) | Price per length | Cost per metre (\$) |
|----------|----------------------|------------------|---------------------|
| Α | 6.1 | \$26.07 | \$4.27 |
| В | 6.1 | \$28.20 | |
| С | 6.5 | \$29.90 | |

(b) The tube will be purchased from Supplier A. Complete the cutting list below and calculate the cost of the materials to manufacture the hall table. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part name | Number required | Length | Cost of part(s) |
|-------------|-----------------|--------|-----------------|
| Long rails | 4 | 900 mm | |
| Short rails | 4 | 200 mm | |
| Legs | 4 | 762 mm | |

The manufacturer has decided to produce the hall table in another size.

(c) Complete the adjusted cutting list below and calculate the cost of the materials to manufacture the hall table. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part name | Number required | Length | Cost of part(s) |
|-------------|-----------------|---------|-----------------|
| Long rails | 4 | 1210 mm | |
| Short rails | 4 | 250 mm | |
| Legs | 4 | 790 mm | |

Question 19 (10 marks)

| The manufacture of goods has altered significantly and continues to grow and change. |
|---|
| Companies design and use new technologies and materials to improve products, reduce costs |
| and increase profits to be competitive. These innovations have changed the way humans are |
| involved in manufacturing processes. In the global era, societal attitudes and standards of |
| human rights and ethical work have changed. |

| Outline five ethical issues Australian manufacturers face and how they manage the ethical production of their goods. | | | | | | |
|---|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

31

MATERIALS DESIGN AND

METAL CONTEXT

Section Three: Textiles context 60% (72 Marks)

This section contains **six** questions. Answer **all** questions.

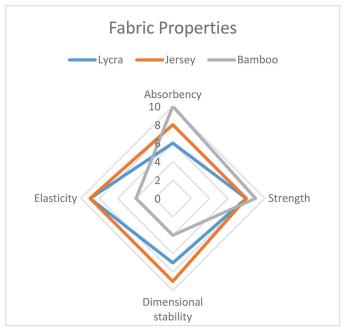
Suggested working time: 90 minutes.

Question 20 (18 marks)

The designer of this skinsuit has used a knit fabric to create a comfortable, functional garment for cyclists. Consider this information and the data in the radar chart below when answering the question parts.



(a)



| fy which fabric would be the most functional and our selection against the other fabrics available. (5 marks) |
|---|
| (0 |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

TECHNOLOGY

| innotate a | method for tes | ting that proper | ty. | nd in the space b | (6 ma |
|------------|----------------|------------------|-----|-------------------|-------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Question 20 (continued)

| Outline three factors you must o | consider to ensure | reliability of test | results. | (3 n |
|--|---------------------|---------------------|------------|--------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| With reference to its characterist | tice evolain what r | method of ioining | r would be | most |
| With reference to its characterist suitable for the seams of the skill | | method of joining | g would be | |
| | | method of joining | g would be | |
| | | method of joining | g would be | |
| | | method of joining | g would be | |
| | | method of joining | g would be | |
| | | method of joining | g would be | |
| | | method of joining | g would be | most (4 r |

This page has been left blank intentionally

Question 21 (9 marks)

Health and safety is a priority when using the machine pictured.



Sewing machine

| Outline three safety checks that should be carried out on the machine before switching it on. (3 marks |
|---|
| |
| |
| |
| |
| |
| |
| |
| |
| |

| b) | A student is using the machine to sew a seam and notices that the fabric is not moving and the machine is stitching repeatedly in the same place. Describe how this problem could be corrected. (2 marks |
|----|---|
| | |
| | |
| c) | Outline four strategies that a company could implement to establish and maintain a safe work culture. (4 marks |
| | |
| | |
| | |
| | |
| | |
| | |

Question 22 (16 marks)

| (a) | Complete the table for three finishes and state how it enhances the appearance | e of the |
|-----|---|-----------|
| | fabric. | (6 marks) |

| Name of finish | Enhance the appearance of fabric |
|---------------------------------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Using an example, outline three | ways in which finishes add value to products. (4 |
| | |
| | |
| | |
| | |
| | |
| | |

| (c) | The development of new materials impacts how products can be used by design consumers. Explain two ways in which new materials generate innovation and new design possibilities. | |
|-----|---|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Define the term CNC. | (, |
|--|---|
| Define the term one. | |
| | |
| | |
| List three advantages and three dis new technology. | sadvantages to the manufacturer of investing (|
| Advantages | Disadvantages |
| One: | One: |
| | |
| | |
| | |
| Two: | Two: |
| | |
| | |
| | |
| Three: | Three: |
| Three: | Three: |

| c) | Identify one CNC machine used in the clothing manufacturing industry and explain how works. (3 marks |
|----|---|
| | |
| | |
| | |
| | |
| | |

Question 24 (8 marks)

The bridal gown shown below is made out of 150 cm wide Duchess silk satin.

For copyright reasons this image cannot be reproduced in the online version of this document, but may be viewed at the link listed on the acknowledgements page.

(a) The Duchess silk satin is available from several suppliers. Complete the table below to calculate the cost per metre for each supplier. Round the costs to the nearest cent.

(2 marks)

| Supplier | Length (metres) | Price per length | Cost per metre (\$) |
|----------|-----------------|------------------|---------------------|
| Α | 6.1 | \$326.04 | \$53.45 |
| В | 6.1 | \$368.20 | |
| С | 6.1 | \$349.90 | |

(b) The fabric will be purchased from Supplier A. Complete the cutting list below and calculate the cost of the materials to manufacture the bridal gown. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part Name | Number Required | Length | Cost of part(s) |
|-------------|-----------------|--------|-----------------|
| Skirt front | 1 | 2.2 m | |
| Skirt back | 1 | 3.15 m | |
| Bodice | 1 | 0.75 m | |

The manufacturer has decided to produce the bridal gown in another size and to add a longer train to the skirt back.

(c) Complete the adjusted cutting list below and calculate the cost of the materials to manufacture the bridal gown. Round the costs to the nearest cent. (3 marks)

Material cutting/costing list

| Part Name | Number Required | Length | Cost of part(s) |
|-------------|-----------------|--------|-----------------|
| Skirt front | 1 | 2.5 m | |
| Skirt back | 1 | 5.15 m | |
| Bodice | 1 | 0.95 m | |

Question 25 (10 marks)

The manufacture of goods has altered significantly and continues to grow and change. Companies design and use new technologies and materials to improve products, reduce costs and increase profits to be competitive. These innovations have changed the way humans are involved in manufacturing processes. In the global era, societal attitudes and standards of human rights and ethical work have changed.

| Outline five ethical issues Australian manufacturers face and how they manage the ethical production of their goods. | | | |
|---|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

45

MATERIALS DESIGN AND TECHNOLOGY

| Supplementary page | | | | |
|--------------------|--|--|--|--|
| Question number: | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Supplementary page | | |
|--------------------|--|--|
| Question number: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

MATERIALS DESIGN AND TECHNOLOGY

| Supplementary page |
|--------------------|
| Question number: |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

| Supplementary page | | |
|--------------------|--|--|
| Question number: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

MATERIALS DESIGN AND TECHNOLOGY

| Supplementary page |
|--------------------|
| Question number: |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

| Supplementary page |
|--------------------|
| Question number: |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

ACKNOWLEDGEMENTS

Question 8 Colwell, D. (n.d.). Stackable A-chair [Photograph 3/8]. Retrieved June,

2020, from https://www.davidcolwell.com/o range Achair

_gal.html

Questions 9, 15 Hafco. (n.d.). *PD-440 - pedestal drill - belt drive* [Photograph 1/20].

Retrieved June, 2020, from https://www.machineryhouse.com.au/d598

Question 12 Diamond Creek Furniture Collection. (n.d.). Quadrat console table

[Photograph]. Retrieved June, 2020, from https://www.bellarine

furniture.com.au/product-page/quadrat-hall-table

Question 14 Joli. (n.d.). Wire bar stool [Photograph]. Retrieved June, 2020, from

https://tbcontractfurniture.com/products/wire-bar-chair

Question 18 Adapted from: [Photograph of black and glass narrow console table,

6/22]. Retrieved June, 2020, from https://www.wayfair.com/furniture/pdp/ebern-designs-coppock-console-table-w001219530.html?piid=

36049709&utm source=Pinterest&utm medium=Social

Question 20 FDX Sports. (n.d.). FDX N0 classic triathlon skin-suit for

cycling/swimming/running race [Photograph 1/9]. Retrieved June, 2020, from https://www.ebay.com/itm/FDX-Mens-Classic-Cycling-

Skinsuit-Stylish-Padded-One-Piece-Cycling-Tri-Suit-Set-

/172614279975

Question 21 Adapted from: Bernina. (n.d.) [Photograph of Bernina 1008 sewing

machine]. Retrieved June, 2020, from https://www.penelope.ca/us/

bernina-couture-1008.html

Question 24 Hannah, A. (n.d.). [Photograph of Ellie wedding dress, 2/5]. Retrieved

June, 2020, from https://www.alanhannah.co.uk/dress/ellie/

This document – apart from any third party copyright material contained in it – may be freely copied, or communicated on an intranet, for non-commercial purposes in educational institutions, provided that it is not changed and that the School Curriculum and Standards Authority is acknowledged as the copyright owner, and that the Authority's moral rights are not infringed.

Copying or communication for any other purpose can be done only within the terms of the *Copyright Act 1968* or with prior written permission of the School Curriculum and Standards Authority. Copying or communication of any third party copyright material can be done only within the terms of the *Copyright Act 1968* or with permission of the copyright owners.

Any content in this document that has been derived from the Australian Curriculum may be used under the terms of the Creative Commons Attribution 4.0 International (CC BY) licence.

An Acknowledgements variation document is available on the Authority website.