

<p>Answer ONE question only.</p> <p>1 Built Environment and Construction focus</p> <p>A Property Developer building a small estate of detached houses wishes to give the estate character by adding an entrance porch to the front elevation of each house.</p> <p>A design for a front porch is required.</p> <p>The porch must:</p> <ul style="list-style-type: none"> • include provision for disabled access to the property; • be suitable for properties which have conventional brick construction. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>	<p>3 Food focus</p> <p>A community, celebrating the opening of a new Community Centre, is organising a celebratory meal.</p> <p>A celebration food product is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • be a luxury product • be suitable for a wide range of ages. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>
<p>2 Engineering focus</p> <p>Space is often limited in a garage.</p> <p>A work surface that can be attached to a wall is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • be easy to fold down when required; • have the facility to store basic DIY tools. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>	<p>4 Graphic Products focus</p> <p>A large hotel chain wishes to provide guests with a packed lunch that could be eaten away from the hotel.</p> <p>A product capable of holding food and drink is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • be easy to carry and eat from; • be designed to be 'flat pack'. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>
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<p>5 Manufacturing focus</p> <p>Young children can become bored easily if they are not kept fully occupied.</p> <p>An interactive play table for children of 2 – 5 years is required for use in playgroups and retail stores.</p> <p>The play table must:</p> <ul style="list-style-type: none"> • include games or activities to occupy children; • be produced as a batch of 5000. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>	<p>7 Systems and Control focus</p> <p>When cooking food at home, it is sometimes necessary to use a kitchen timer.</p> <p>An innovative kitchen timer is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • display the time remaining in an original way; • be hygienic for use in a kitchen. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>
<p>6 Resistant materials focus</p> <p>A Music Department in a secondary school wishes to have a Music Garden in their school grounds. The Music Garden will include a range of products that can create sounds.</p> <p>A product that will create one or more sounds is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • be permanently fixed in the Music Garden; • be aesthetically exciting. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>	<p>8 Textiles focus</p> <p>A company that makes bags is looking for innovative ideas to expand their range of products.</p> <p>A bag that can be used for picnics and outings is required.</p> <p>The product must:</p> <ul style="list-style-type: none"> • hold food, drink and other items needed for a picnic; • be suitable for a family group. <p>Follow the instructions given on the four A3 answer sheets to complete the question.</p>
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Circle the question number you are answering

1 2 3 4 5 6 7 8

(a) Give **three** justified specification points.

1 _____

2 _____

3 _____

ALLOCATION OF MARKS FOR PAPER F524/02

- (a) specification points [6]
 - (b) range of developed ideas [33]
 - (c) final developed outcome [9]
 - (d) communication [6]
- [Total: 54]

All dimensions are in millimetres.
Where necessary, calculators may be used.

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S	R	D	E	F	C	Total

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(b) Ideas with development

- A range of ideas [15]
- Consider manufacturing/construction detail [12]
- Evaluate ideas with reference to specification and volume production [6]

[Total: 33]

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(b) Ideas with development (continued)

A3 SHEET 3 OF 4

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R	
D	
E	

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CANDIDATE NUMBER

CENTRE NUMBER

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(c) Final Developed Outcome

Sketch a final developed outcome. Justify key design features. [9]

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F	
C	

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CANDIDATE NAME

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