

<div>Answer ONE question only.</div> <div><div>1</div><div>Built environment and construction focus</div></div> <div>The management of a large shopping centre has identified a need to communicate more effectively with its customers.</div> <div>A customer information desk is required.</div> <div>The product must:</div> <div><ul style="list-style-type: none">• accommodate three members of staff• be permanently fixed.</div> <div>Follow the instructions given on the four A3 answer sheets to complete the question.</div>	<div><div>3</div><div>Food focus</div></div> <div>A food manufacturer wants to expand its range of food products to include more fish dishes.</div> <div>A new food product that includes fish is required.</div> <div>The product must:</div> <div><ul style="list-style-type: none">• appeal to teenagers• be nutritionally balanced.</div> <div>Follow the instructions given on the four A3 answer sheets to complete the question.</div>
<div><div>2</div><div>Engineering focus</div></div> <div>Portable sources of light are often needed at roadworks and construction sites.</div> <div>A product to hold a number of high-powered electric lamps is required.</div> <div>The product must:</div> <div><ul style="list-style-type: none">• allow the lamps to be adjusted into any required position• be easily moved from site to site.</div> <div>Follow the instructions given on the four A3 answer sheets to complete the question.</div>	<div><div>4</div><div>Graphic products focus</div></div> <div>The high quality of packaging of luxury electronic products enhances the whole user experience.</div> <div>An innovative package for a Tablet PC is required.</div> <div>The package must:</div> <div><ul style="list-style-type: none">• be able to be used as a carrier for the Tablet PC• become a useful accessory to use with the product.</div> <div>Follow the instructions given on the four A3 answer sheets to complete the question.</div>
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<div><div>5</div><div>Manufacturing focus</div></div> <div><p>The recycling of household waste has become increasingly important over recent years.</p><p>A product that can be used by householders to separate waste for recycling is required.</p><p>The product must:</p><ul style="list-style-type: none">store different types of waste separately for ease of recyclingbe suitable for use inside the house.<p>Follow the instructions given on the four A3 answer sheets to complete the question.</p></div>	<div><div>7</div><div>Systems and control focus</div></div> <div><p>Upstairs windows in houses or flats are difficult to keep clean on the outside.</p><p>A product is required to clean the outside of windows, which are not accessible from ground level.</p><p>The product must:</p><ul style="list-style-type: none">be easily used by householdersbe usable on windows up to 10 metres above the ground.<p>Follow the instructions given on the four A3 answer sheets to complete the question.</p></div>
<div><div>6</div><div>Resistant materials focus</div></div> <div><p>A school with limited space in the dining area wishes to encourage students to eat lunch outside in the school grounds during the summer term.</p><p>A product that allows students to sit and eat lunch outside is required.</p><p>The product must:</p><ul style="list-style-type: none">accommodate three studentsbe easily assembled and easily stored after use.<p>Follow the instructions given on the four A3 answer sheets to complete the question.</p></div>	<div><div>8</div><div>Textiles focus</div></div> <div><p>A company wishes to extend its range of textile products for the home.</p><p>A new textile product to store items for a child's bedroom is required.</p><p>The product must:</p><ul style="list-style-type: none">be based on a theme of naturebe easy to clean.<p>Follow the instructions given on the four A3 answer sheets to complete the question.</p></div>
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Circle the question number you are answering

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

A3 SHEET 1 OF 4

1 2 3 4 5 6 7 8

T

2

Instructions to candidates

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

[6]

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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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(c) Final developed outcome

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

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END OF QUESTION PAPER

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