1  Built Environment and Construction focus

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.

A design for a front porch is required.

The porch must:
• include provision for disabled access to the property;
• be suitable for properties which have conventional brick construction.

Follow the instructions given on the four A3 answer sheets to complete the question.

2  Engineering focus

Space is often limited in a garage.

A work surface that can be attached to a wall is required.

The product must:
• be easy to fold down when required;
• have the facility to store basic DIY tools.

Follow the instructions given on the four A3 answer sheets to complete the question.

3  Food focus

A community, celebrating the opening of a new Community Centre, is organising a celebratory meal.

A celebration food product is required.

The product must:
• be a luxury product
• be suitable for a wide range of ages.

Follow the instructions given on the four A3 answer sheets to complete the question.

4  Graphic Products focus

A large hotel chain wishes to provide guests with a packed lunch that could be eaten away from the hotel.

A product capable of holding food and drink is required.

The product must:
• be easy to carry and eat from;
• be designed to be ‘flat pack’.

Follow the instructions given on the four A3 answer sheets to complete the question.
5 Manufacturing focus

Young children can become bored easily if they are not kept fully occupied.

An interactive play table for children of 2 – 5 years is required for use in playgroups and retail stores.

The play table must:

• include games or activities to occupy children;
• be produced as a batch of 5000.

Follow the instructions given on the four A3 answer sheets to complete the question.

6 Resistant materials focus

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.

A product that will create one or more sounds is required.

The product must:

• be permanently fixed in the Music Garden;
• be aesthetically exciting.

Follow the instructions given on the four A3 answer sheets to complete the question.

7 Systems and Control focus

When cooking food at home, it is sometimes necessary to use a kitchen timer.

An innovative kitchen timer is required.

The product must:

• display the time remaining in an original way;
• be hygienic for use in a kitchen.

Follow the instructions given on the four A3 answer sheets to complete the question.

8 Textiles focus

A company that makes bags is looking for innovative ideas to expand their range of products.

A bag that can be used for picnics and outings is required.

The product must:

• hold food, drink and other items needed for a picnic;
• be suitable for a family group.

Follow the instructions given on the four A3 answer sheets to complete the question.
Circle the question number you are answering

1 2 3 4 5 6 7 8

(a) Give three justified specification points.

1 __________________________________________________________________________________________________________________________

2 __________________________________________________________________________________________________________________________

3 __________________________________________________________________________________________________________________________

ALLEOATION 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.

For Examiners Use Only

<table>
<thead>
<tr>
<th>S</th>
<th>R</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>C</th>
<th>Total</th>
</tr>
</thead>
</table>

---

F524/02 PRODUCT DESIGN  CANDIDATE NAME  CANDIDATE NUMBER  CENTRE NUMBER
(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]
(b) Ideas with development (continued)
Sketch a final developed outcome. Justify key design features. [9]