



Junior Certificate Examination, 2017

Materials Technology Wood
Coursework - Design Briefs

Ordinary Level and Higher Level
200 marks

The Design Briefs for the Certificate Examinations 2017 are given overleaf

THE COURSEWORK MUST BE COMPLETED BEFORE 28 APRIL 2017

REGULATIONS FOR EACH CANDIDATE:

1. **The coursework you submit for assessment must be your own individual work.**
2. **Your coursework must be executed in school under the supervision of your teacher.** If you submit coursework which cannot be authenticated by your teacher, you will not receive any marks for either the artefact or the design folio.
3. **When using research sources, including the Internet, the sources must be acknowledged.** Research material copied directly from the Internet or from other sources and presented as your own work will not receive any marks.
4. **You must submit your own individual, distinct coursework – both artefact and design folio.**
5. **Your artefact must not be removed from the school setting under any circumstances as doing so may result in such coursework being considered invalid.**

Instructions to Candidates:

1. Select **one** design brief from **either** the Ordinary Level **or** the Higher Level design briefs opposite.
2. The completed coursework should include a design folio which should contain:
 - *Analysis of the selected design brief*
 - *Investigation/research relating to the proposed solution*
 - *Development of design ideas, their evaluation and preferred solution*
 - *Sketches, notations and working drawings required for the completion of the preferred solution*
 - *Evaluation of the design, its completion and the finished project.*
3. The completed coursework - both artefact and folio - must be available for assessment by **28 April 2017**.
4. Your **Examination Number** should be written clearly on both the completed artefact and on the design folio.

Coursework 2017 - Design and Realisation

Design Briefs - Ordinary Level

1. Design and make a small side table on which to display a vase or ornament in your home.

Your table should be well-proportioned and sturdy. It should be elegant in appearance and should complement the decor in the room.

The footprint of the table must not exceed 300mm and the maximum height must not exceed 450mm.

2. Design and make a decorative artefact to celebrate the importance of music in your life.

The artefact should reflect a music genre or artist of your choice. Your design should be enhanced by the use of contrasting solid woods.

The artefact should be suitable for display on a mantelpiece or shelf.

3. Design and make an attractive artefact to hold and display containers of tea, coffee and sugar on a kitchen worktop.

The artefact should be stylish, compact, well made and appropriately finished. It should reflect a theme of your choice.

Design Briefs - Higher Level

1. Fruit is an important part of a healthy and balanced diet.

Design and make an artefact to store and display a range of fruit in an appealing manner.

A useful and innovative secondary function must be integral to your design. The artefact should be designed for placement on a worktop or for wall-mounting. Your design should incorporate solid wood and have an appropriate applied finish.

The maximum dimension must not exceed 400mm.

2. Young people are inspired by scientific discoveries, innovations and advancements and by their contemporary applications.

Design and make an elegant artefact reflecting a significant scientific milestone which has had an influential and lasting impact on society. Your design should incorporate native Irish hardwoods and include a range of handcraft skills and techniques.

The artefact should be suitable for display on a mantelpiece or shelf.

3. Young people like to have personal items close by while relaxing in their room.

Design and make a modern wall-mounted bedside unit which includes an integrated hand crafted lamp. Your design should incorporate a facility to store small personal items in an enclosed manner which avoids clutter. The artefact should be slimline, graceful in form and display hand crafted joints in solid wood.

Note: *All electrical connections and fittings must comply with current safety standards.*

The maximum dimension must not exceed 450mm.

INFORMATION TO CANDIDATES

Allocation of Marks - Ordinary Level and Higher Level

Marking Headings	Ordinary Level	Higher Level
Analysis of Brief	10	10
Investigation/Research	10	10
Design Ideas/Solution	10	20
Sketches/Working Drawings	10	20
Evaluation	10	10
Folio Total	50	70
Fitness for Purpose	20	20
Appropriate use of Materials	10	10
Creativity	20	20
Demonstration of Skills	60	40
Quality of Finish	20	20
Overall Appearance	20	20
Realisation Total	150	130
TOTAL	200 marks	200 marks

A simple model of a design process is shown below.
It is recommended that you follow the sequence of such a design process.

