



Junior Certificate Examination, 2016

Materials Technology Wood
Coursework - Design Briefs

Ordinary Level and Higher Level
200 marks

The Design Briefs for the Certificate Examinations 2016 are given overleaf

THE COURSEWORK MUST BE COMPLETED BEFORE 29 APRIL 2016

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 **29 April 2016**.
4. Your **Examination Number** should be written clearly on both the completed artefact and on the design folio.

Coursework - Design and Realisation

Design Briefs - Ordinary Level

1. Design and make a decorative mirror for a child's room.

The mirror unit should be designed to be wall mounted and must incorporate a theme from a storybook or animated film. The mirror unit should be safe in use, compact and well made.

Any templates used should be included in your design folio.

2. Design and make a decorative artefact to celebrate the 2016 Summer Olympic Games.

The artefact should be attractive, compact and well made. It may be wall-mounted or suitable for display on a shelf and should represent a specific aspect of this international sporting event.

3. Design and make an attractive organiser for sketching and colouring equipment.

The artefact should be designed to organise and store a variety of pencils, A4 paper and other relevant materials. The organiser should be well made and appropriately finished.

The maximum dimension must not exceed 400mm.

Design Briefs - Higher Level

1. Storage spaces in the home are sometimes located at a high level and are not easily accessed.

Design and make a freestanding artefact which will enable an adult to reach such locations safely. Your artefact should be made from solid wood, with jointing techniques chosen to provide strength and stability. The unit should be designed to be portable and should incorporate an innovative secondary function.

The maximum base footprint of the unit must not exceed 500mm.

2. Marking significant historical events is an important element of cultural identity for nations across the globe.

Design and make an artefact commemorating a significant historical event of your choice. The artefact should be elegant in appearance, be enhanced by the use of native Irish hardwoods and should incorporate a range of handcraft skills. Your design should be inspiring and encourage reflection on cultural values.

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

3. Young people take great pride in their appearance, presentation and image.

Design and make an elegant artefact which will neatly store and display a selection of personal grooming items. The artefact should be compact and designed to rest on a table top. Your design should be inspired by naturally occurring shapes and forms and should accentuate the beauty of skilfully crafted solid wood.

The maximum dimension must not exceed 350mm.

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.

