



An Roinn Oideachais
Department of Education

LCA Subject Development Day 2022

| | |
|------------------|--|
| Session 1 | Welcome and Introductions Learning outcomes An Overview of the LCA Programme and assessment |
| Tea/Coffee Break | |
| Session 2 | Subject specific content Activity and discussion |
| Lunch | |
| Session 3 | Evaluations Subject area: Practical strategies for teaching, learning and assessment Plenary |

By the end of this seminar participants will have:

Become familiar with the curriculum and assessment procedures in Leaving Certificate Applied.

Explored the approaches to teaching, learning and assessment in LCA.

Become familiar with your subject specific module descriptor.

PDST - Introduction

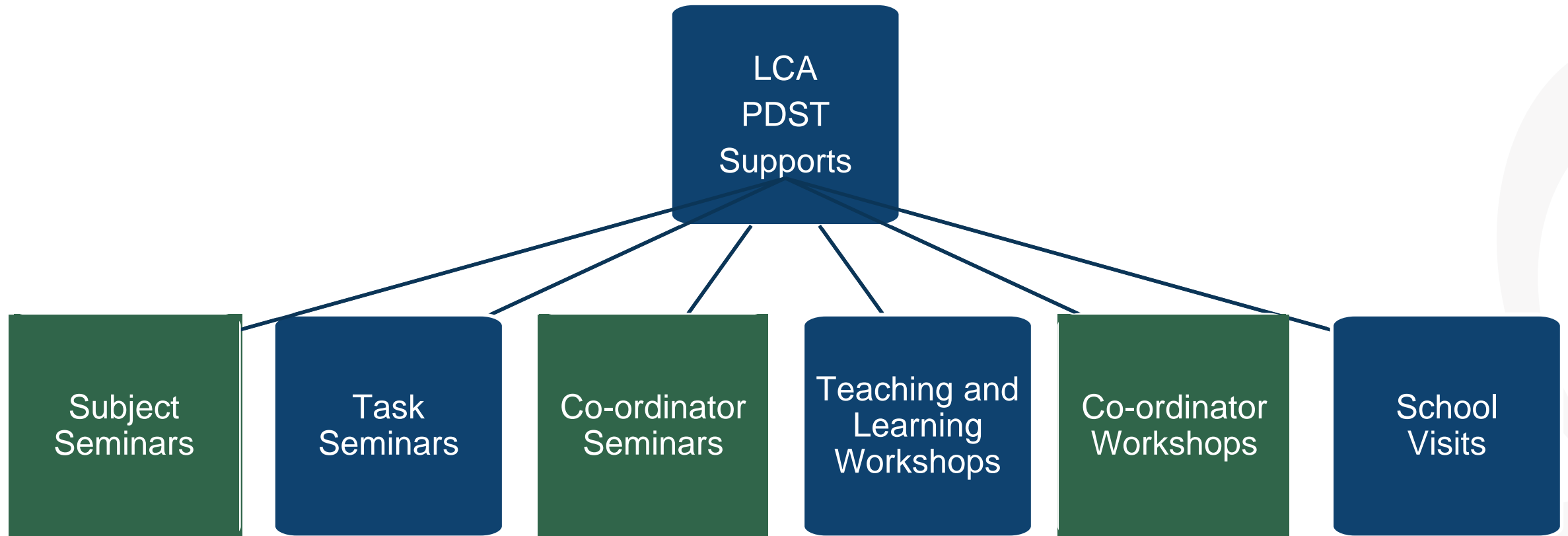
What we are

Teachers & School Leaders
Teacher Educators
Facilitators/Enablers
Purveyors of Lifelong Learning

What we are not

Evaluators
Policy Makers
Curriculum Developers

LCA Supports provided by PDST



What do you hope to get from today's seminar?



LCA Curriculum framework

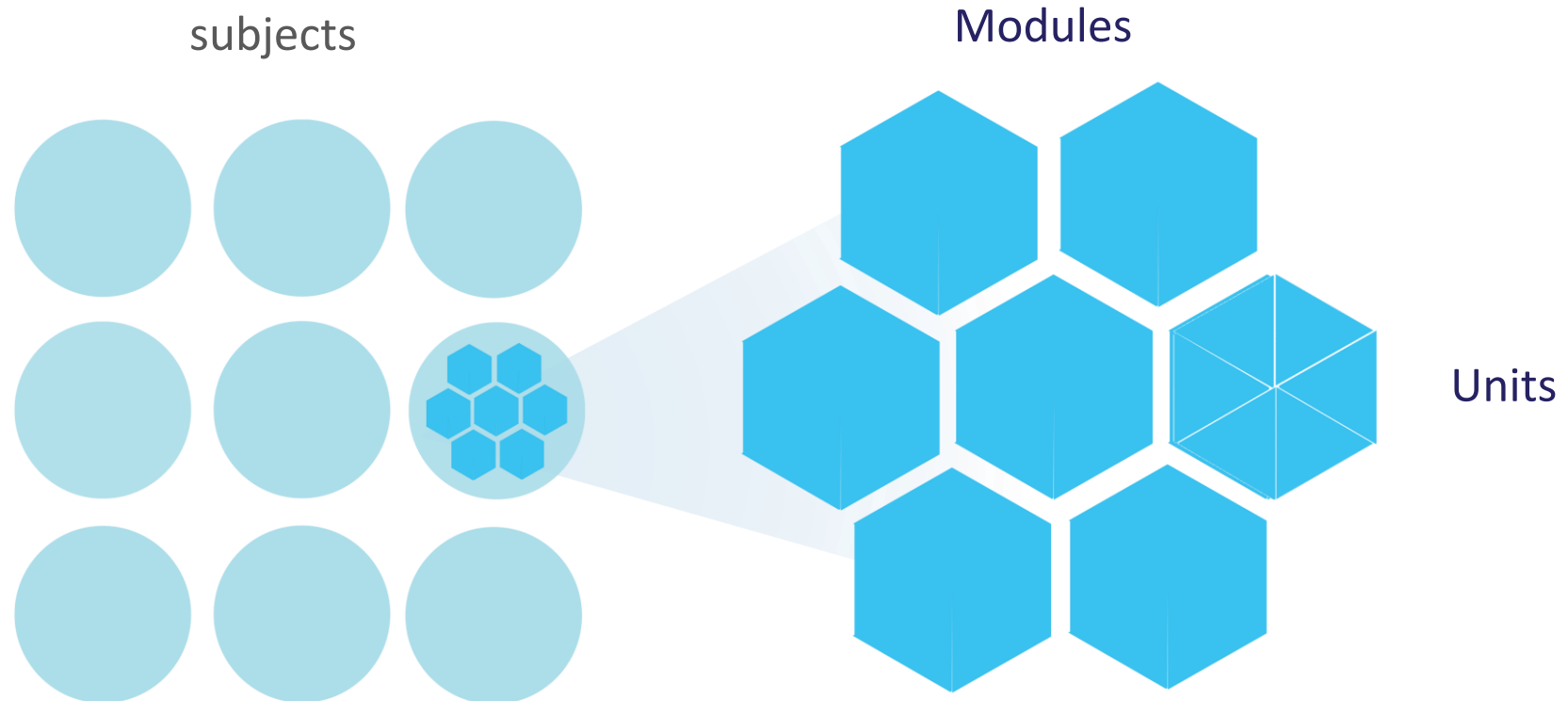
LCA Curriculum Framework & Credits Allocation

| Course Name | Year One | | Year Two | |
|---|---|--|---|---|
| | Session 1 Sept-Jan | Session 2 Feb-June | Session 3 Sept-Jan | Session 4 Feb-June |
| Vocational Preparation | Vocational Preparation & Guidance | → 2 2 | → 2 2 | → 2 2 2 2 |
| | English & Communications (Exam = 12 credits) | Personal & Social Communications | Communication & the Digital World | Communication in Media Express Yourself |
| | VOC. PREP. TASK | | PERSONAL REFLECTION TASK PART 1 | |
| | PERSONAL REFLECTION TASK PART 2 | | PERSONAL REFLECTION TASK PART 2 | |
| Vocational Education | Mathematical Applications (Exam = 10 credits) | Mathematics & Planning | Mathematics & the World Around Me | Mathematics & Life Skills Mathematics & Work |
| | Vocational Specialisms (Choose 2 from 11 options (Exams = 12 credits each)) | 1 1 | 1 1 | 1 1 |
| | Introduction to Information and Communication Technology | → 2 | → 2 | → 2 |
| | VOC. ED. TASK | | VOC. ED. TASK | |
| General Education | Arts Education (Drama, Dance, Visual Arts, Music) | → 2 | → 2 | → 2 |
| | Social Education (Exam = 10 credits) | 1 My/Com → 1 Ctp/Iss 1 1 Soc/Health | 1 Ctp/Iss 1 1 Soc/Health | 1 Ctp/Iss 2 1 Tlk/Charge 1 Soc/Health |
| | Languages (2 exams = 6 credits each) | 1 | 1 | 1 |
| | Leisure & Recreation (including PE.) | → 2 | → 2 | → 2 |
| | GENERAL ED. TASK | | CONT. ISSUES TASK | |
| Elective Courses | 2 | 2 | 2 | 2 |
| 30 Hour Modules (3 to 4 class periods per week) | | | PRACTICAL ACHIEVEMENT TASK | |
| <p>→ Indicates that the module credits may be taught in this session but <u>cannot</u> be claimed until May of that year.</p> <p>□ Indicates that the module credits can be claimed at the end of this session.</p> | | | All tasks have a value of 10 credits each | |

LCA Curriculum Framework

| | |
|-------------------------------|--|
| Vocational Preparation | <ul style="list-style-type: none"> • Vocational Preparation & Guidance • English & Communications |
| Vocational Education | <ul style="list-style-type: none"> • Mathematical Applications • Vocational Specialisms* (<i>Choose 2 from 11 options</i>) • Introduction to Information Communication Technology |
| General Education | <ul style="list-style-type: none"> • Arts Education (<i>Dance, Drama, Music, Visual Arts</i>) • Social Education • Languages (<i>Gaeilge and French/Italian/German/Spanish</i>) • Leisure & Recreation (<i>including Physical Education</i>) |
| Elective courses | <ul style="list-style-type: none"> • Religious Education (for example) • Science (for example) |

LCA Programme Structure

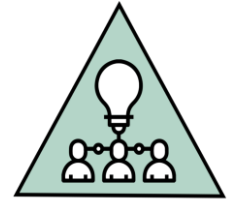


LCA Curriculum Framework

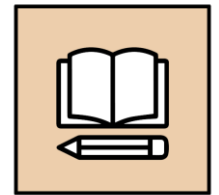
Please fill in:
Two specialisms
Your own subject (if different)
Any elective

LCA Curriculum Framework & Credits Allocation

| Course Name | Year One | | Year Two | |
|---|----------------------------------|-----------------------------------|----------------------------|-----------------------|
| | Session 1 Sept-Jan | Session 2 Feb-June | Session 3 Sept-Jan | Session 4 Feb-June |
| Vocational Preparation & Guidance | → | → | → | Guidance |
| | | Enterprise | | |
| | | | | |
| English & Communications (Exam = 12 credits) | Personal & Social Communications | Communication & the Digital World | Communication in Media | Express Yourself |
| | VOC. PREP. TASK | | | |
| Mathematical Applications (Exam = 10 credits) | Mathematics & Planning | Mathematics & the World Around Me | Mathematics & Life Skills | Mathematics & Work |
| | | | | |
| | | | | |
| | | | | |
| Vocational Specialisms Choose 2 from 11 options (Exams = 12 credits each) | | | | |
| | | | | |
| Introduction to Information and Communication Technology | → | | → | |
| | | | | |
| | VOC. ED. TASK | | VOC. ED. TASK | |
| Arts Education (Drama, Dance, Visual Arts, Music) | → | | → | |
| | | | | |
| | | | | |
| | | | | |
| Social Education (Exam = 10 credits) | My/Com | Ctp/Iss1 | Ctp/Iss 2 | Tk/Charge |
| | → | Soc/Health | | Soc/Health |
| | | | | |
| Languages (2 exams = 6 credits each) | | | | |
| | | | | |
| Leisure & Recreation (including P.E.) | → | | → | |
| | | | | |
| | GENERAL ED. TASK | | CONT. ISSUES TASK | |
| Elective Courses | | | | |
| | | | | |
| 30 Hour Modules (3 to 4 class periods per week) | | | | |
| | | | PRACTICAL ACHIEVEMENT TASK | |
| <p>→ Indicates that the module credits may be taught in this session but cannot be claimed until May of that year.</p> <p>□ Indicates that the module credits can be claimed at the end of this session.</p> | | | | |
| <i>All tasks have a value of 10 credits each</i> | | | | |



ACTIVITY



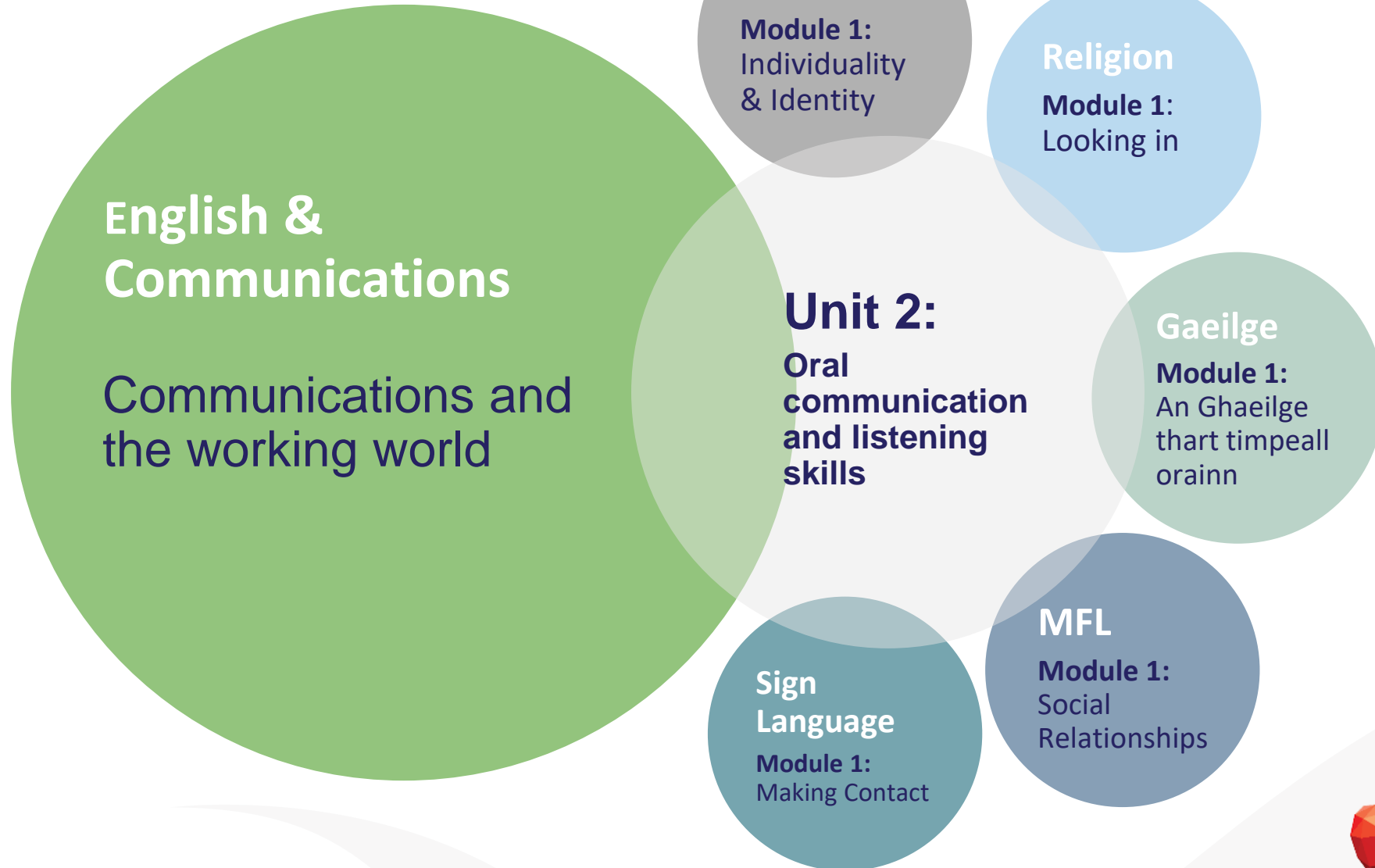
WORKBOOK

Layout of Module Descriptors

Transdisciplinary Links
Rationale
Number and sequence of modules
Description of Modules
General Recommendations
Modules
Purpose
Prerequisites
Aims
Units
Learning Outcomes
Teacher Guidelines
Key Assignments

<https://www.curriculumonline.ie/Senior-cycle/LCA/>

Transdisciplinary Nature of the LCA Course



LCA Certification

Awarded at three levels

Pass

120 - 139 credits

60-69%

Merit

140 - 169 credits

70-84%

Distinction

170 - 200 credits

85-100%

Students who acquire less than 120 credits or who leave the programme early will receive a
'Record of Experience'

LCA Modes of Assessment

| | | | | | | |
|--|------------------------------------|----------------------------------|-------------------------|----------------------------------|--------------------|-------------|
| Satisfactory completion of modules + 90% attendance | | | | | 62 credits | 31% |
| <ul style="list-style-type: none"> • Evidence of completion of key assignments for each module • One credit per course module in which there is a final exam • Two credits per course module in which there is NO final exam | | | | | | |
| 7 Student tasks @ 10 credits each | | | | | 70 credits | 35% |
| <i>Vocational Preparation</i> | | <i>Vocational Education (x2)</i> | | <i>General Education</i> | | |
| <i>Contemporary Issue</i> | | <i>Personal Reflection</i> | | <i>Practical Achievement</i> | | |
| Final examinations | | | | | 68 credits | 34% |
| English & Communication | Vocational Specialisms (x2) | Languages (x2) | Social Education | Mathematical Applications | | |
| 12 credits | 12 credits each | 6 credits each | 10 credits | 10 credits | | |
| Total | | | | | 200 credits | 100% |

LCA Modes of Assessment

Satisfactory completion of modules + 90% attendance

Evidence of completion of **key assignments** for each module

One credit per course module in which there is a final exam

Two credits per course module in which there is NO final exam

62
credits

31%

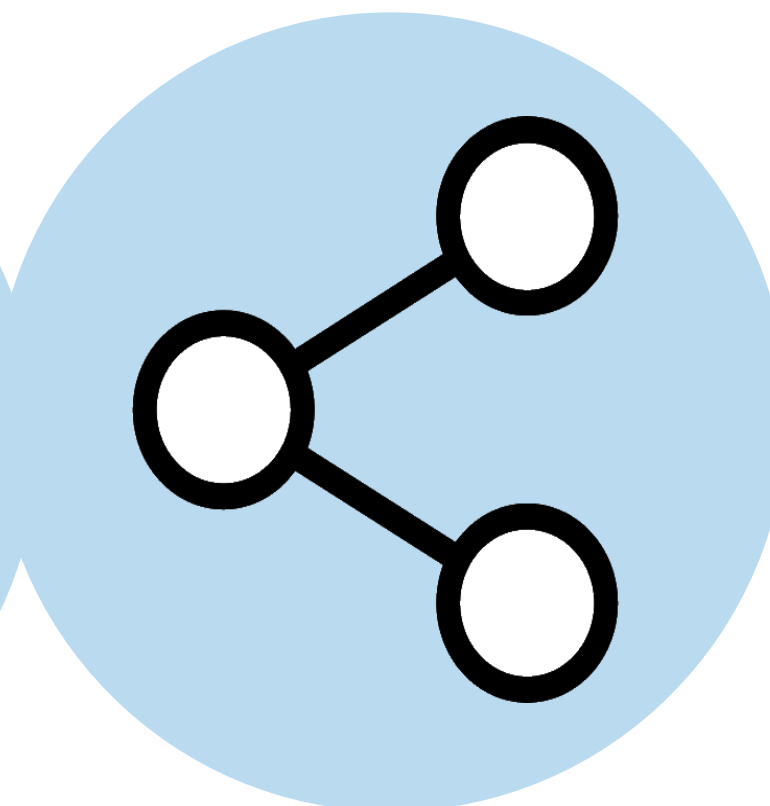
What is a key assignment?



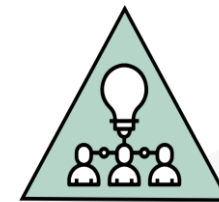
Think



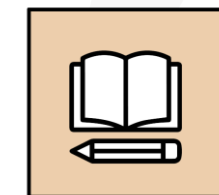
Pair



Share



ACTIVITY



WORKBOOK

What is a key assignment?



Credit Records

It is essential to keep a record of attendance for EACH MODULE

CREDIT RECORDS SHEET

| Class Name: | | Session: | | Course: | |
|---------------|-----------|---------------------------|-------------------------|---------|-------------------------------|
| Module Title: | | | Module Code: | | |
| Surname | Firstname | Key Assignments Completed | 90% Attendance Achieved | Credit | Comment if credit not awarded |
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Signed _____ Date _____



LCA Modes of Assessment

| | | | | | | | | |
|--|----------------------------------|----------------------------------|--------------------------|---------------------------|----------------------------|------------------------------|-----------------------|------------|
| <p>Satisfactory completion of modules + 90% attendance</p> <p>Evidence of completion of 4 key assignments for each module</p> <p>One credit per course module in which there is a final exam</p> <p>Two credits per course module in which there is NO final exam</p> | <p>62 credits</p> | <p>31%</p> | | | | | | |
| <p>7 Student tasks @ 10 credits each</p> <table border="1" data-bbox="137 936 1778 1260"> <tr> <td data-bbox="137 936 682 1098"><i>Vocational Preparation</i></td> <td data-bbox="682 936 1228 1098"><i>Vocational Education (x2)</i></td> <td data-bbox="1228 936 1778 1098"><i>General Education</i></td> </tr> <tr> <td data-bbox="137 1098 682 1260"><i>Contemporary Issue</i></td> <td data-bbox="682 1098 1228 1260"><i>Personal Reflection</i></td> <td data-bbox="1228 1098 1778 1260"><i>Practical Achievement</i></td> </tr> </table> | <i>Vocational Preparation</i> | <i>Vocational Education (x2)</i> | <i>General Education</i> | <i>Contemporary Issue</i> | <i>Personal Reflection</i> | <i>Practical Achievement</i> | <p>70 credits</p> | <p>35%</p> |
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| <i>Contemporary Issue</i> | <i>Personal Reflection</i> | <i>Practical Achievement</i> | | | | | | |

Summary of Tasks

| Task | Credit | % | Completed in session | Assessed |
|---|--------|---|----------------------|----------|
| 1. General Education <i>Originating in Arts Education, Leisure & Rec., Language or Social Education</i> | 10 | 5 | 1 | Jan/Yr 1 |
| 2. Vocational Preparation <i>Originating in either Vocational Preparation & Guidance or English & Communication</i> | 10 | 5 | 2 | May/Yr 1 |
| 3. Vocational Education - 1st specialism <i>Originating in one Vocational Specialism</i> | 10 | 5 | 2 | May/Yr 1 |
| 4. Vocational Education - 2nd specialism <i>Originating in the second Vocational Specialism</i> | 10 | 5 | 3 | Jan/Yr 2 |
| 5. Contemporary Issues <i>Anchored in Social Education</i> | 10 | 5 | 3 | Jan/Yr 2 |
| 6. Practical Achievement <i>Generally out of school/centre</i> | 10 | 5 | 3 | Jan/Yr 2 |
| 7. Personal Reflection <i>Statement 1 from year one will be stored and returned to SEC when statement two is complete</i> | 10 | 5 | on-going | May/Yr 2 |

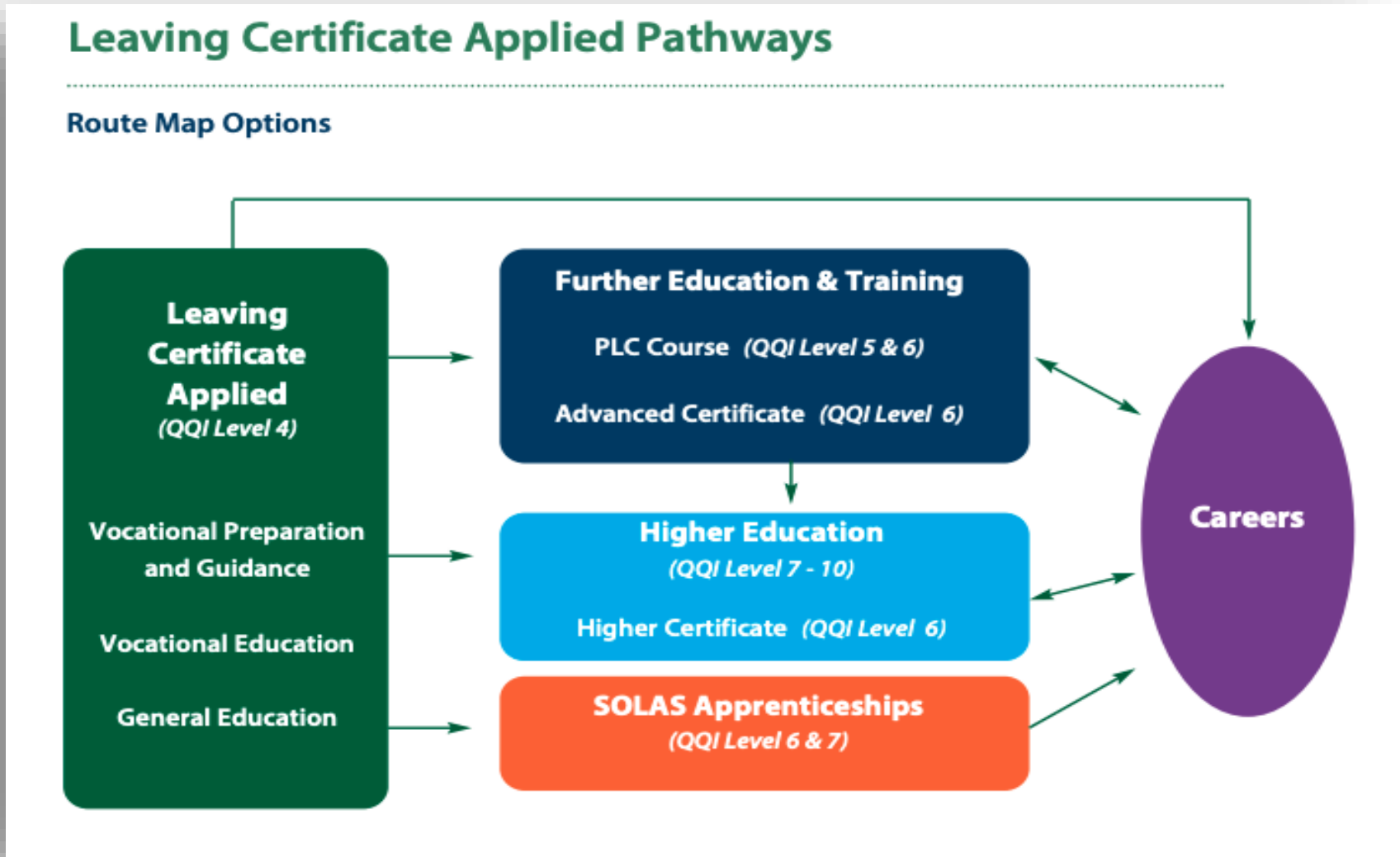
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| 12 credits | 12 credits each | 6 credits each | 10 credits | 10 credits | | |
| Total | | | | | 200 credits | 100% |

Final Examinations

| Area | Credits |
|---|---------|
| English & Communication Oral and written incorporating audio visual | 12 |
| Vocational Specialisms (x2) Practical and written – practical briefs issued in advance <i>(see next slide for details)</i> | 12 each |
| Languages (x2) Oral and written incorporating aural | 6 each |
| Social Education Written incorporating audio | 10 |
| Mathematical Applications Written – research topic (Q. 2. issued in advance) | 10 |
| Total | 68 |

The Leaving Certificate Applied Route Map



Recommended Reading

LCA Chief Examiners Report 2014

For full details go to examinations.ie

DES Inspectorate Report

<https://www.education.ie/en/Publications/Inspection-Reports-Publications/>

By the end of this seminar participants will have:

Become familiar with the curriculum and assessment procedures in Leaving Certificate Applied.

Explored the approaches to teaching, learning and assessment in LCA.

Become familiar with your subject specific module descriptor



End of Session 1

Session Two

ENGINEERING

COURSE CONTENT



ASSESSMENT

Credits towards the final award are accumulated throughout the two years of the programme through:

- 1.) Satisfactory completion of modules (key assignments). (Maximum of 62 credits)
- 2.) Performance of students tasks. (Maximum of 70 credits)
- 3.) Performance in the final examinations. (Maximum of 68 credits) .
Including project

Vocational Specialism Group

- Agriculture/Horticulture
- Childcare/Community Care
- Graphics and Construction Studies
 - Craft and Design
 - Engineering
 - Hair and Beauty
- Hotel, Catering and Tourism
- Office Administration and Customer Care
- Technology Information and Communication Technology
 - Active Leisure Studies

Modules

- STUDENTS MUST COMPLETE FOUR MODULES.
- A MODULE REPRESENTS APPROXIMATELY 30 HOURS OF WORK. (3-4 class periods/week)
- EACH MODULE HAS A NUMBER OF KEY ASSIGNMENTS TO BE COMPLETED FOR ASSESSMENT.

Engineering Modules

ENGINEERING CORE (MANDATORY)

GENERAL ENGINEERING PROCESSES

MOTOR ENGINEERING

DECORATIVE METALWORK

ENGINEERING SYSTEMS (ANY 2 TOPICS)

ANY OTHER THREE FROM ABOVE

Key Assignments

KEY ASSIGNMENTS

MODULE 1: ENGINEERING CORE

CHECKLIST

I produced an artefact using hand and machine tools.

I produced an artefact using mechanical and thermal joining processes.

I produced an artefact as part of a team.

I produced a working drawing of an artefact which included a list of materials and processes.

FAQ's

What are key assignments?

A. They are a number of learning experiences that have been selected from the module as being of key importance. Key assignments plus 90% attendance are a minimum requirement to obtain credit for a module.

Where can the key assignments be found?

A. They are printed at the end of each module.

How many key assignments are there?

A. Four for each module.

Where can the key assignments be found?

A. They are printed at the end of each module.

How many key assignments are there?

A. Four for each module.

STORING KEY ASSIGNMENTS

Evidence of Satisfactory Completion of Modules (student attendance record for the specific module & student evidence of each of the key assignments) must be available for inspection by Department of Education & Science until the final date for appeals in Session 4. The evidence for each session must be kept until the individual student has completed the two years of the programme and the final result for all sessions has been issued.

TASK

A practical activity by which learning is applied to:

- ▶ The Development of a Product
- ▶ The Investigation of an Issue
- ▶ The Provision of a Service
- ▶ The Staging of an Event
- ▶ An Enterprise Activity
- ▶ A Production/Live Performance

Definition

Vehicle for curriculum
integration of as many courses
as possible

Assessment Requirements

**Evidence of
task
completion**

**Individual task
report**

**Individual
presentation
of task at
interview
with external
examiner**

**Marked on LCA
30, 31 & 32**

The Folder

1. Cover page with picture of product
2. Contents page
3. Aim(s)
4. Research and Planning
5. Possible Solutions
6. Working drawing of final design
7. Production (method of manufacture & skills)
8. Evaluation (self & product)

TASK ASSESSMENT

| | |
|--------------------------------|----|
| Clarity of purpose | 10 |
| Research & planning | 10 |
| Execution of task | 20 |
| Meeting the brief | 20 |
| Creativity / originality | 10 |
| Self + product evaluation | 10 |
| Cross curricular | 10 |
| Communication (written + oral) | 10 |

The Interview

- Involves a discussion between the candidate and the examiner.
- Lasts for around 5 – 10 minutes.
- Students should display good knowledge and understanding.
- Practice the interview (but not too much).

Group or Individual?

Ownership and evidence of work is key here

THE PROJECT

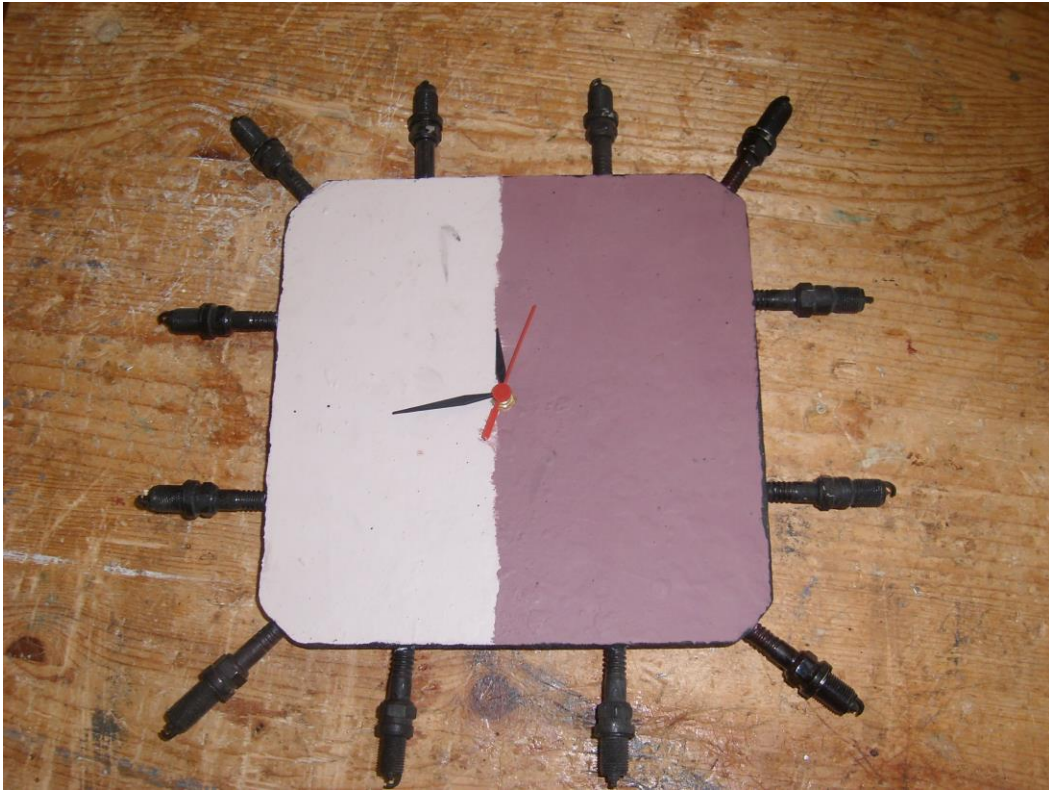
- Briefs are issued by SEC in session four
- Worth 40% of final examination element
- Product & Interview
- Design folder must accompany product
- **PRACTICE INTERVIEW!**

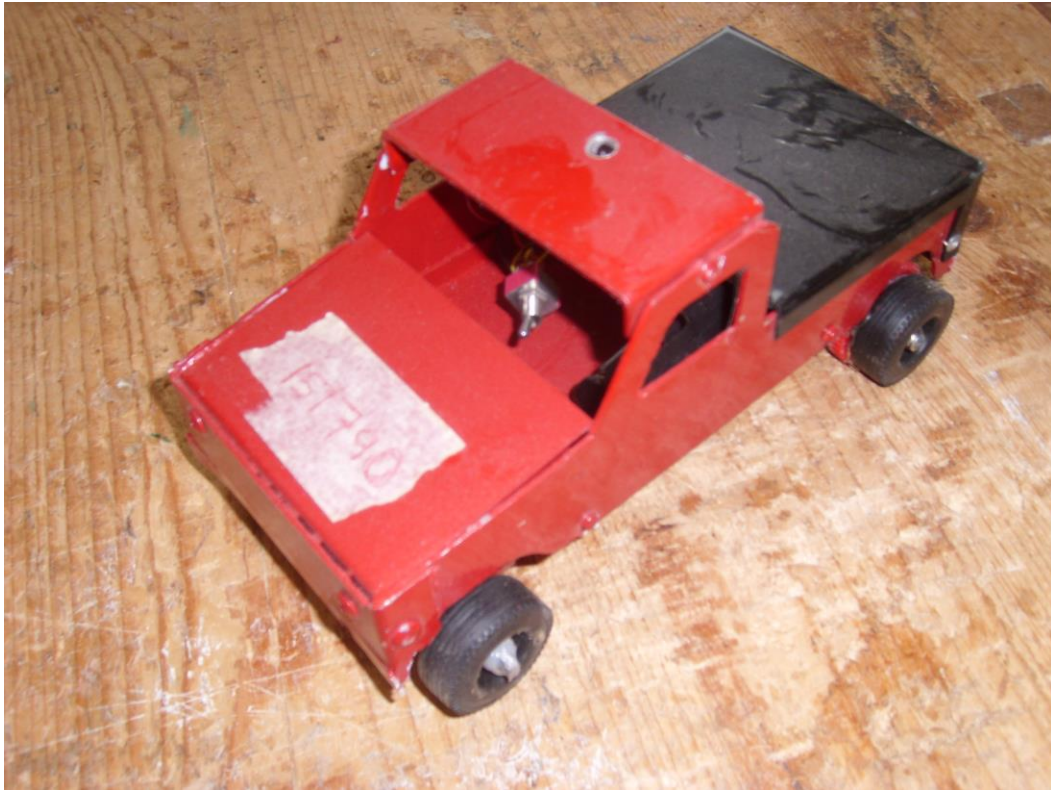
2021 Engineering Briefs

DESIGN BRIEFS

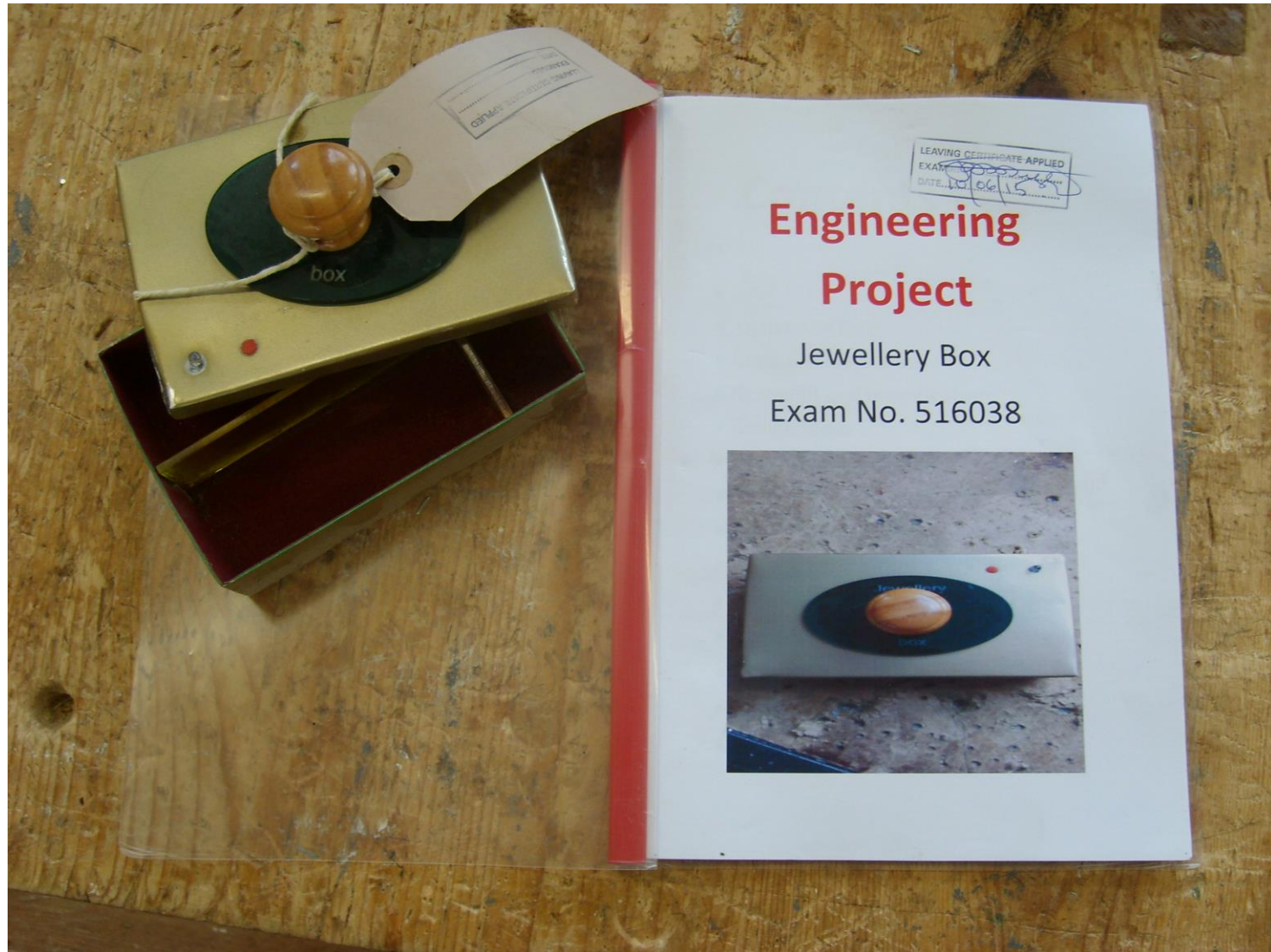
- 1. Design and make a tea-light holder to display at least three tea-lights. The tea-light holder should be predominantly made from metal and should reflect a festive theme.**
- 2. Design and make an artefact to celebrate participation in a sport of your choice. The artefact should be attractive in appearance and incorporate a suitable light feature.**
(Electrical power where used should not exceed 9 volts).
- 3. Design and make a brazier log burner in metal which is suitable for outdoor use. The brazier log burner should incorporate a number of decorative features.**

TASK





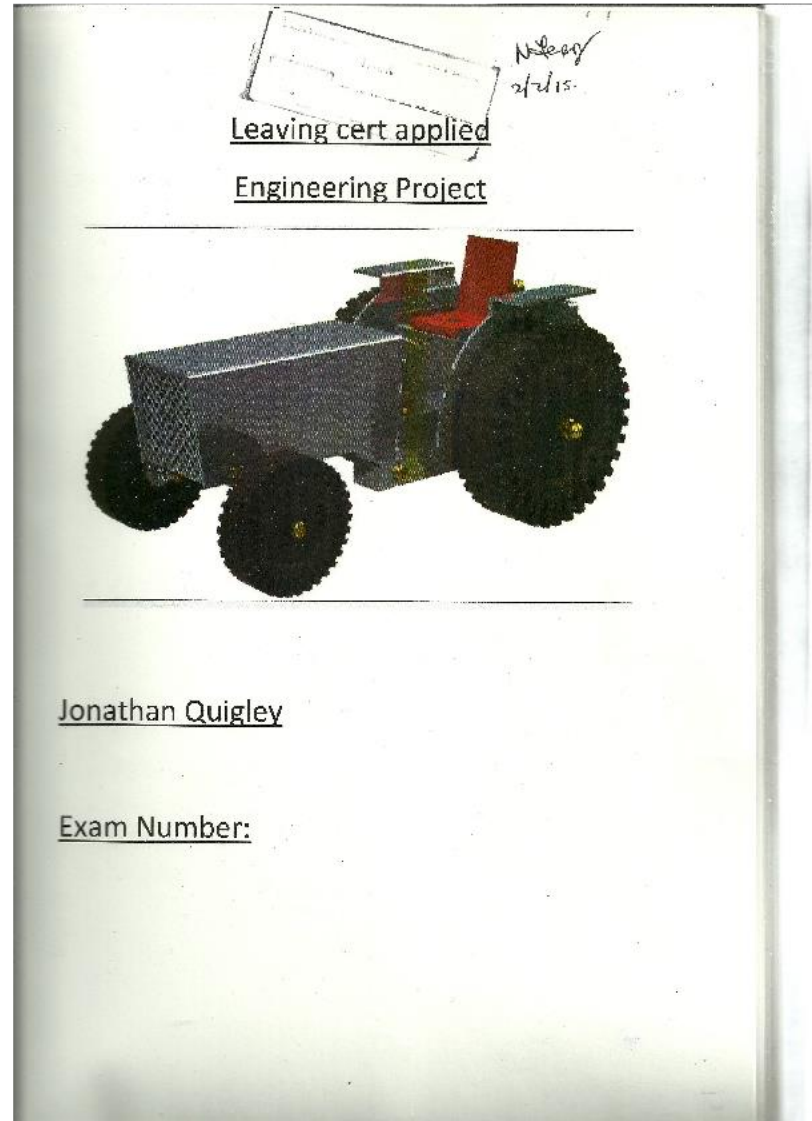
Project





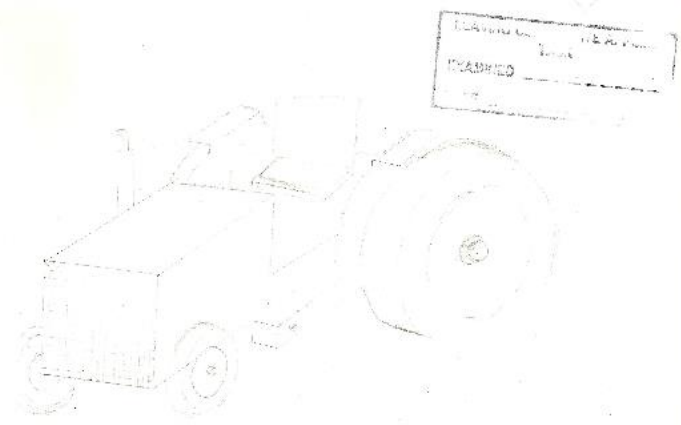






Contents Page

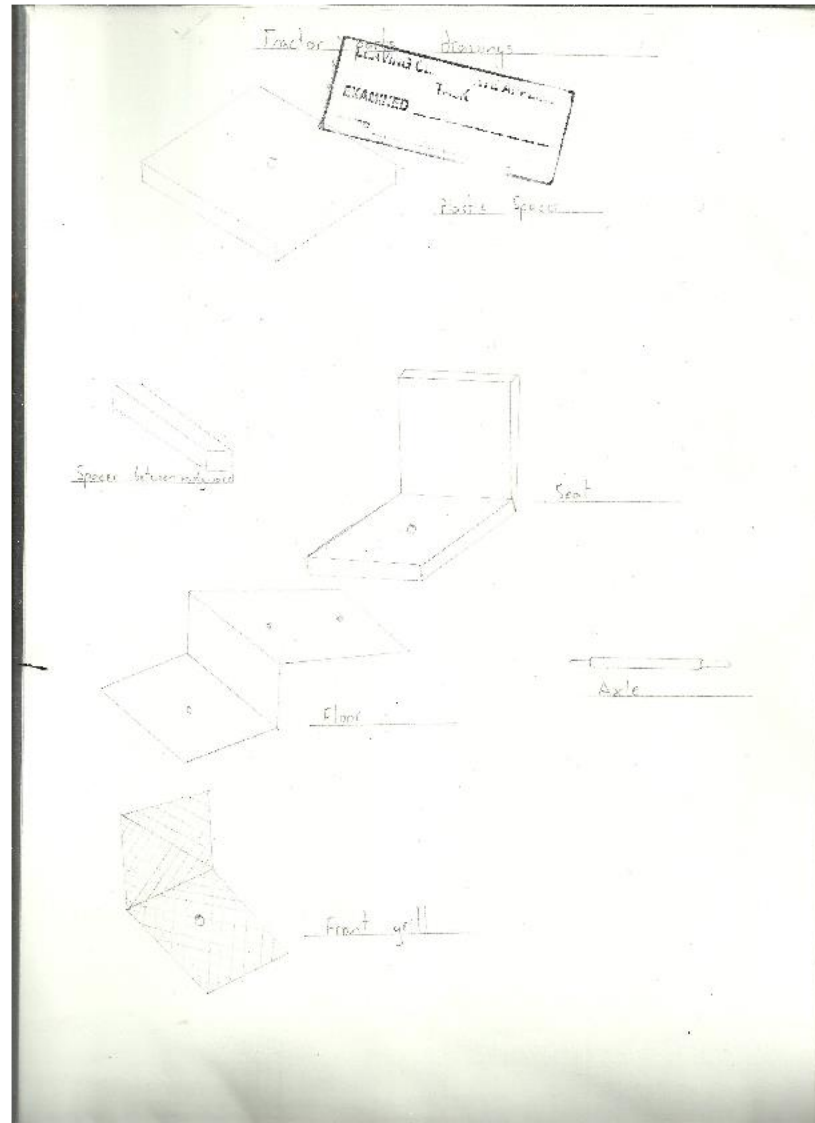
- *List of vehicles made*
- *Drawings of vehicle*
- *Materials list for vehicle*
- *Equipment and tools used*
- *Links with other subjects*
- *Self evaluation*



Model Tractor

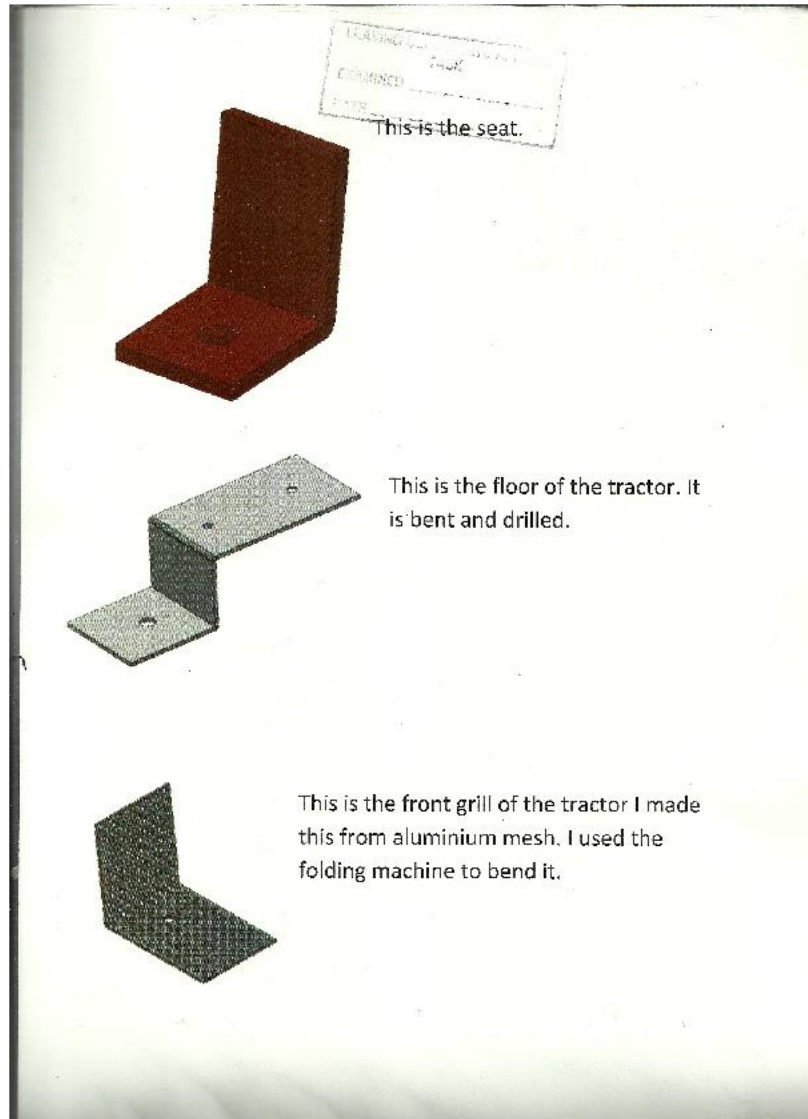
List of vehicles made

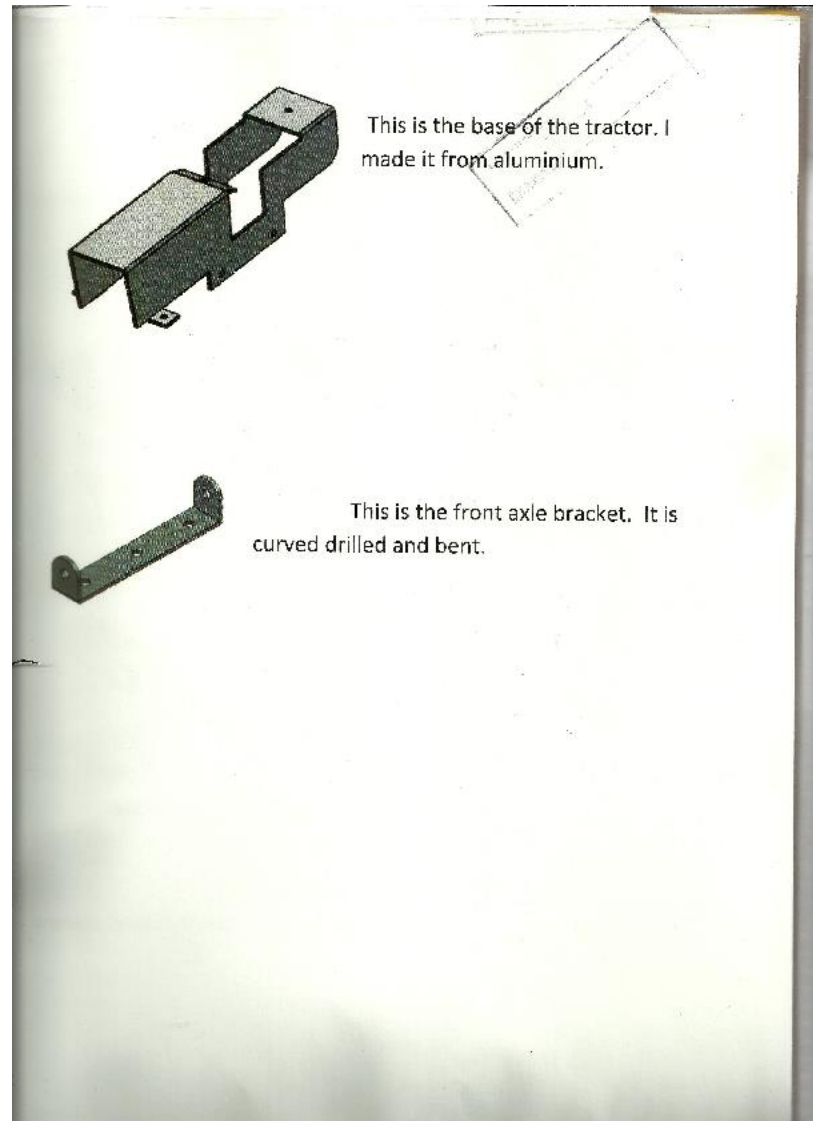
- Model car
- Tractor
- Airplane
- Machining on lathe
 - Facing
 - Parallel turning
 - Parting off
 - Drilling
 - Knurling



LEARNING GOALS
 TASK
 EXAMINED
 DATE
Materials used

| part | material | size |
|------|-----------|-----------|
| 1 | Aluminium | 110x96mm |
| 2 | Plastic | 70x76mm |
| 3 | Aluminium | 114x179mm |
| 4 | Brass | 79x78mm |
| 5 | Brass | 6x235mm |
| 6 | Aluminium | 4x108mm |
| 7 | Aluminium | 8x82mm |





Equipment and tools used

I used the following tools to make this project:

- Guillotine



- Nibblers

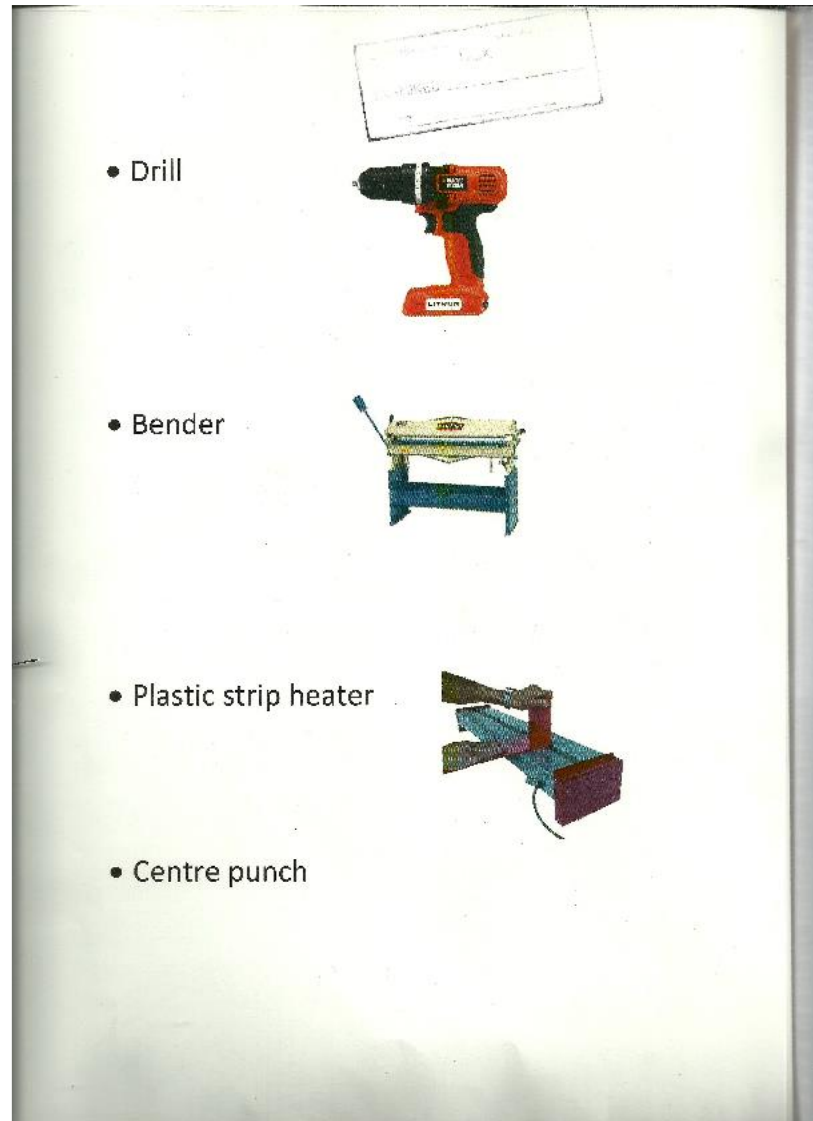


- Scriber



- Metal file





Links with other subjects

- I used Math when measuring out the size of the piece and where the holes go on the piece.
- I.T. To type up about the project and researching some information.
- Art/tg for doing the drawings

Self evaluation

- I learned how to use a lathe. I learned how to do Facing , Parallel turning ,Parting off, Drilling ,Knurling.
- I learned how to measure out a piece accurately.
- I learned how to assemble a piece using pop rivets.
- I learned how to cut sheet metal using a guillotine.
- I learned to draw parts of machines that can be assembled.

Aims and objectives:

- I want to learn how to use all the machines in the engineering room properly.
- I want to be able to read a drawing and mark out a piece properly and put a piece together.
- I hope to learn how to spray paint metal properly.
- I want to learn health and safety regulations so I am safe when working with equipment.



End of Session 3