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Supporting the Professional
Learning of School Leaders
and Teachers

Leaving Certificate Applied

Mathematical Applications



Overview

Session 1 10:00 - 11:15	Overview of the LCA Programme Framework
Tea/Coffee 11:15 - 11:30	
Session 2 11:30 – 12:45	Engaged with Mathematical Concepts and Skills Transdisciplinary integration Designing rich learning experiences
Lunch 12:45 – 13:15	
Session 3 13:15 – 2:45	Planning a unit of learning Reflection and evaluation



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Session One



By the end of this session participants will have:

- Become familiar with the curriculum and assessment procedures in LCA.
- Reviewed the changes in LCA
- Explored the approaches to teaching, learning and assessment in LCA.
- Become familiar with your subject specific module descriptor.

LCA - The Numbers at a Glance

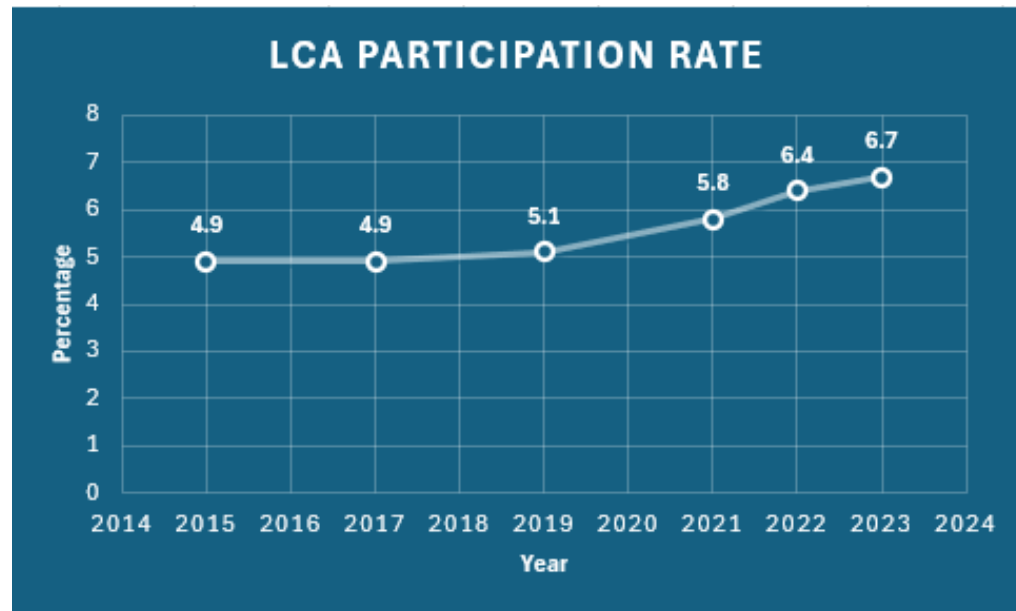


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444 Schools offer LCA Programme and Increasing

32% increase in student participation in the two years from 2022 to 2024

4048 students completed LCA in 2025



Source: Statistical Bulletin – August 2024 Overview of Education 2003/04–2023/24

LCA Supports Provided by Oide



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Subject Seminars

Task
Seminars

Co-ordinator
Seminars

Collaboratives

Co-ordinator
Workshops

School
support

Webinars



Programme Statement





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5th Year

6th Year

	LCA Year 1		LCA Year 2	
	Session 1 Sept-Jan	Session 2 Feb-June	Session 3 Sept-Jan	Session 4 Feb-June
Vocational Preparation & Guidance	2 English 2 Personal & Social Communication Ongoing	2 Enterprise 2 Personal & Social Communication 10 Vocational Preparation Task	2 English 2 Personal & Social Communication Ongoing	2 Enterprise 2 Guidance 2 Personal & Social Communication
English & Communications +12 credit exam	1 Personal & Social Communication	1 Communication in the Digital World	1 Communication in the Digital World	1 Enterprise
Mathematical Applications +10 credit exam	1 Mathematics & Planning	1 Mathematics & the World Around Me	1 Mathematics & Life Skills	1 Mathematics & Work
Vocational Specialisms Choose 2 specialisms from 11 options Ove 12 credit exam per specialism	1 English 1 English	1 English 1 English	1 English 1 English	1 English 1 English
Introduction to ICT	Ongoing	10 Vocational Preparation Task	Ongoing	2 Jobs in Other Sectors & Apps
Arts Education Drama, Dance, Music, Arts, Media	Ongoing	2 Arts Education	Ongoing	2 Arts Education
Languages Ove 8 credit exam per language	1 English	1 English	1 English	1 English
Social Education	2 My Community	2 Contemporary World 2	2 Contemporary World 2	2 Taking Charge
Leisure & Recreation Including PE	Ongoing	2 Leisure & Recreation	Ongoing	2 Leisure & Recreation
Electives	2 Electives	2 Electives	2 Electives	2 Electives
	4 Personal Reflection Task Part 1		6 Personal Reflection Task Part 2	

Social Education and SPISE

As of September 2025, students entering year one of the Leaving Certificate Applied (LCA) programme will be required to study the new Senior Cycle Social, Personal and Health Education (SPHSE) curriculum specification. For students following the LCA programme, this specification will replace Social Education modules 1 and 4.

NCCA Acknowledgment

LCA students may access Leaving Certificate Applied (LCA) Mathematics and Modern Foreign Languages.

Click here for more details

	LCA Year 1		LCA Year 2	
	Session 1 Sept-Jan	Session 2 Feb-June	Session 3 Sept-Jan	Session 4 Feb-June
Vocational Preparation & Guidance	2 English 2 Personal & Social Communication Ongoing	2 Enterprise 2 Personal & Social Communication 10 Vocational Preparation Task	2 English 2 Personal & Social Communication Ongoing	2 Enterprise 2 Guidance 2 Personal & Social Communication
English & Communications +12 credit exam	1 Personal & Social Communication	1 Communication in the Digital World	1 Communication in the Digital World	1 Enterprise
Mathematical Applications +10 credit exam	1 Mathematics & Planning	1 Mathematics & the World Around Me	1 Mathematics & Life Skills	1 Mathematics & Work
Vocational Specialisms Choose 2 specialisms from 11 options Ove 12 credit exam per specialism	1 English 1 English	1 English 1 English	1 English 1 English	1 English 1 English
Introduction to ICT	Ongoing	10 Vocational Preparation Task	Ongoing	2 Jobs in Other Sectors & Apps
Arts Education Drama, Dance, Music, Arts, Media	Ongoing	2 Arts Education	Ongoing	2 Arts Education
Languages Ove 8 credit exam per language	1 English	1 English	1 English	1 English
Social Education	2 My Community	2 Contemporary World 2	2 Contemporary World 2	2 Taking Charge
Leisure & Recreation Including PE	Ongoing	2 Leisure & Recreation	Ongoing	2 Leisure & Recreation
Electives	2 Electives	2 Electives	2 Electives	2 Electives
	4 Personal Reflection Task Part 1		6 Personal Reflection Task Part 2	

VOCATIONAL SPECIALISMS

The five vocational specialisms: Information Communication Technology (ICT) and Active Leisure Studies are 10-hour courses and may be taken alongside the introduction to ICT or Leisure & Recreation. They have no exam.

NCCA Acknowledgment

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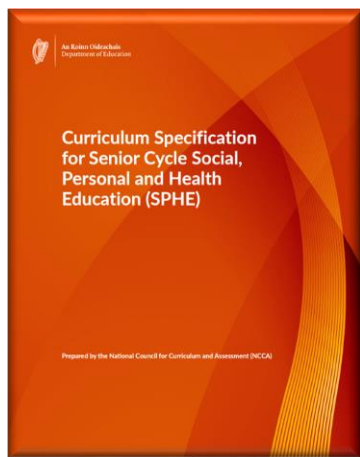
Click here for more details

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Revision of LCA Social and Health Education Modules



	Session 1	Session 2
Year 1	Social, Personal and Health Education	
	My Community	Contemporary Issues 1
	Session 3	Session 4
Year 2	Social, Personal and Health Education	
	Contemporary Issues 2	Taking Charge



Revision of LCA Social and Health Education Modules – Credit Allocation

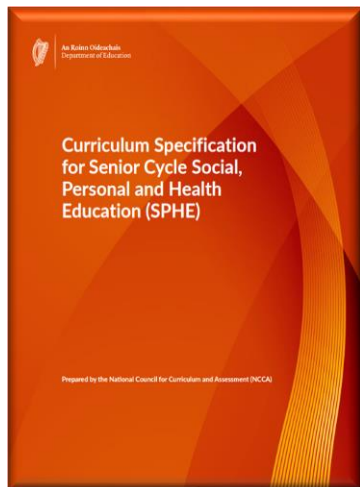
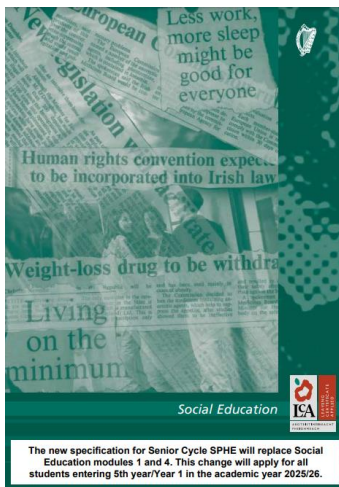


Table 2: Revised credit allocation for Social Education within LCA

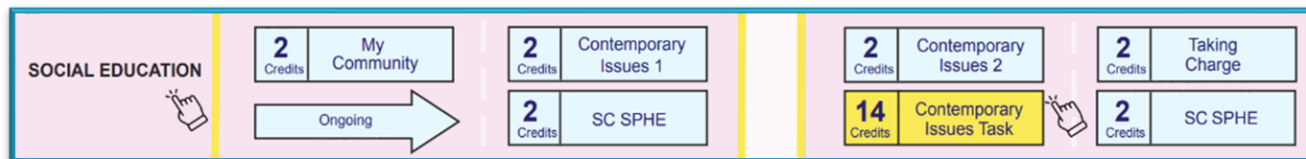
	Year 1		Year 2	
	Session 1	Session 2	Session 3	Session 4
SPHE 1 (Key Assignment)	2 credits			
My Community (Key Assignment)	2 credits			
Contemporary Issues 1 (Key Assignment)		2 credits		
SPHE 2 (Key Assignment)			2 credits	
Contemporary Issues 2 (Key Assignment)			2 credits	
Taking Charge (Key Assignment)				2 credits
Contemporary Issue Task			14 credits	

Circular 0012/2025



Change to Social Education

5th Year LCA 1



6th Year LCA 2





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)

Layout of Module Descriptors



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



LCA Modes of Assessment – 6th Year 2026 Exam

Satisfactory completion of modules + 90% attendance

62 credits

31%

- 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 – 5th Year

Satisfactory completion of modules + 90% attendance					68 credits	34%
<ul style="list-style-type: none">• Evidence of completion of 4 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						
6 Student tasks @ 10 credits each and 14 credits for Contemporary Issues					74 credits	37%
Vocational Preparation		Vocational Education (x2)		General Education		
Contemporary Issue (14 credits from 2025/2026)		Personal Reflection		Practical Achievement		
Final examinations					58 credits	29%
English & Communication	Vocational Specialism 1	Vocational Specialism 2	Languages (x2)	Mathematical Applications		
12 credits	12 credits	12 credits	6 credits each	10 credits		
Total					200 credits	100%

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What is a key assignment?

Key assignments

Number of
Key
learning
experiences

Listed at
the end of
each
module

Integral part of
the
specification

Verified
completed
by teacher

Summary of Tasks



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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>	2026-10 2027- 14	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

Final Exams – 6th Year



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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 – June 2026
Mathematical Applications Written – research topic (Q. 2. issued in advance)	10
Total	68



LCA Certification Awarded at three levels

Pass

120 - 139 credits

60-69%

Merit

140 - 169 credits

70-84%

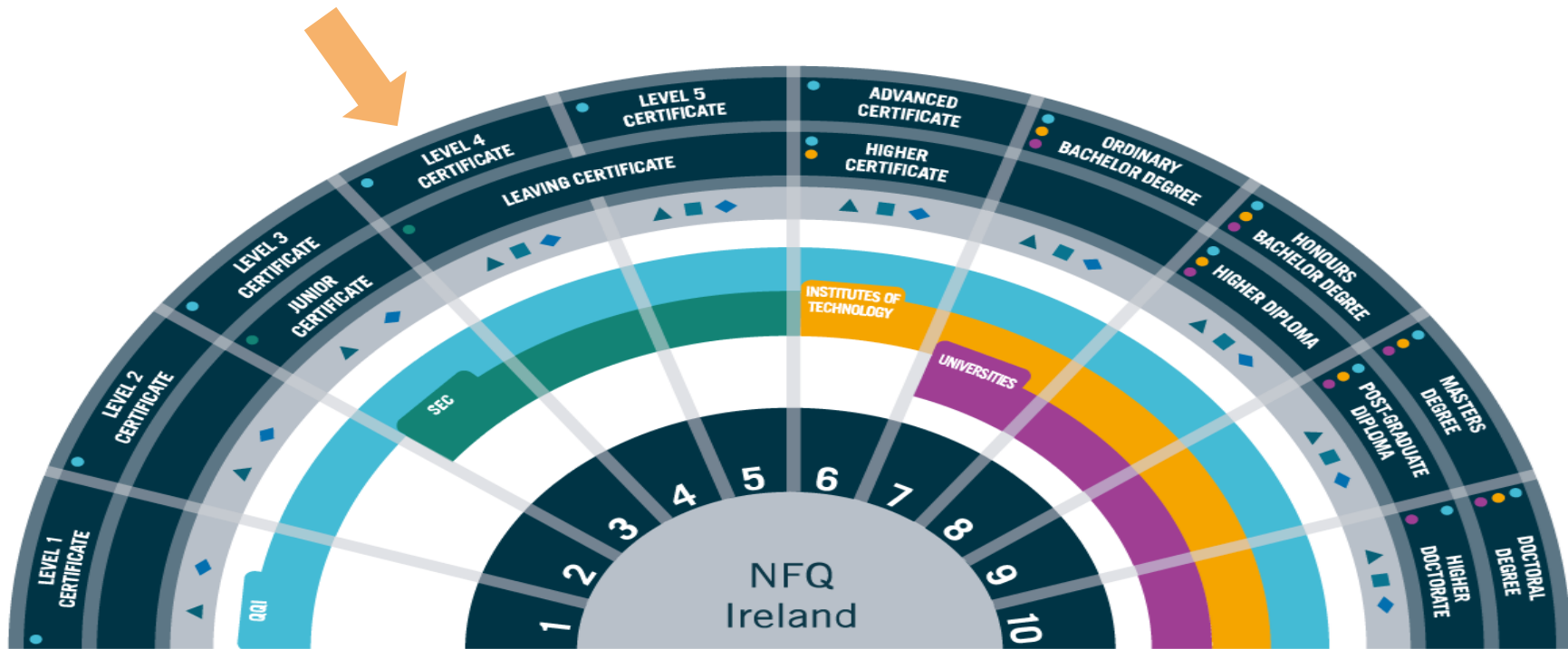
Distinction

170 - 200 credits

85-100%



National Framework of Qualifications (NFQ)

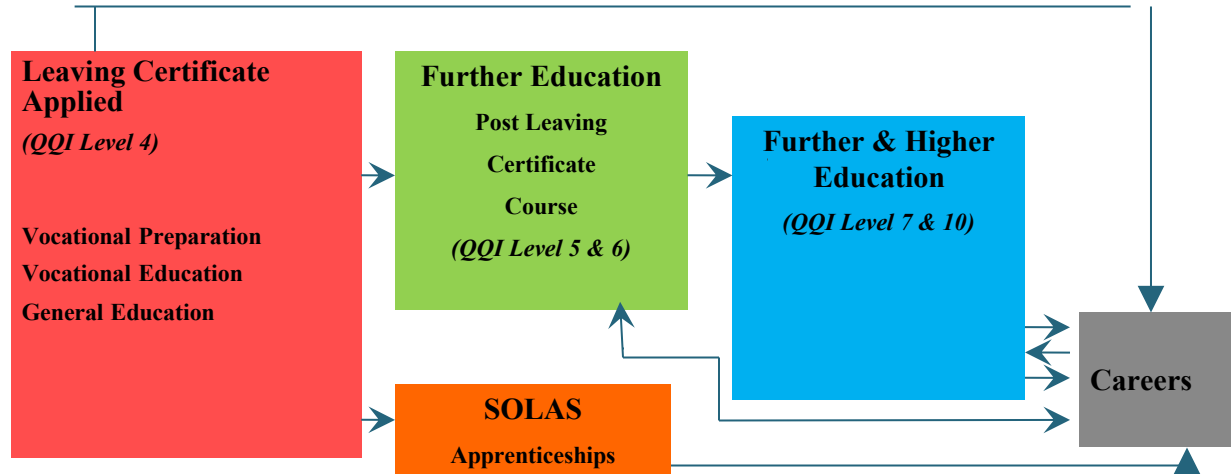


Opening up New Options



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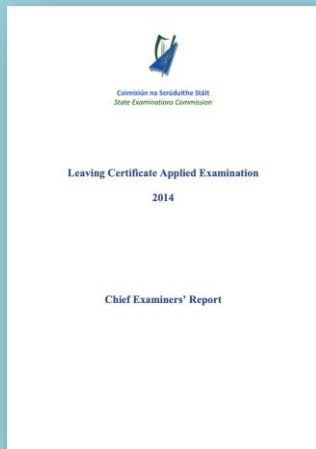
The Leaving Certificate Applied Route Map





Useful Links

[Chief Examiners Report 2014](#)



[LCA Teachers Handbook](#)



[LCA Programme Statement](#)





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Questions?



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Session Two



Session Two

By the end of this session participants will have:



Explored the Mathematical Applications Module Descriptor



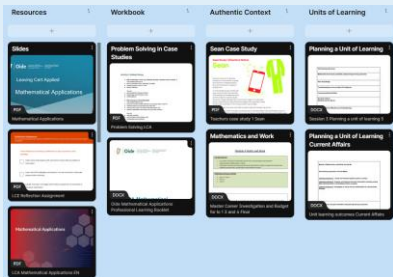
Engaged with rich learning experiences through problem solving



Investigated transdisciplinary links across LCA



Links to relevant material



Padlet



Module
descriptors



Reflection



Things I
found out

Interesting
things

Questions I
still have

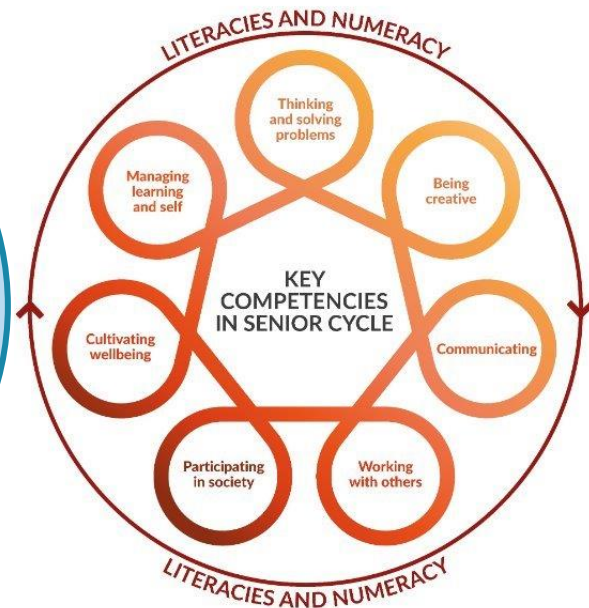




Values and Vision in your Classroom

What are your values for high-quality teaching, learning and assessment in your classroom?

How can you enact your vision for high-quality teaching, learning and assessment in your classroom?





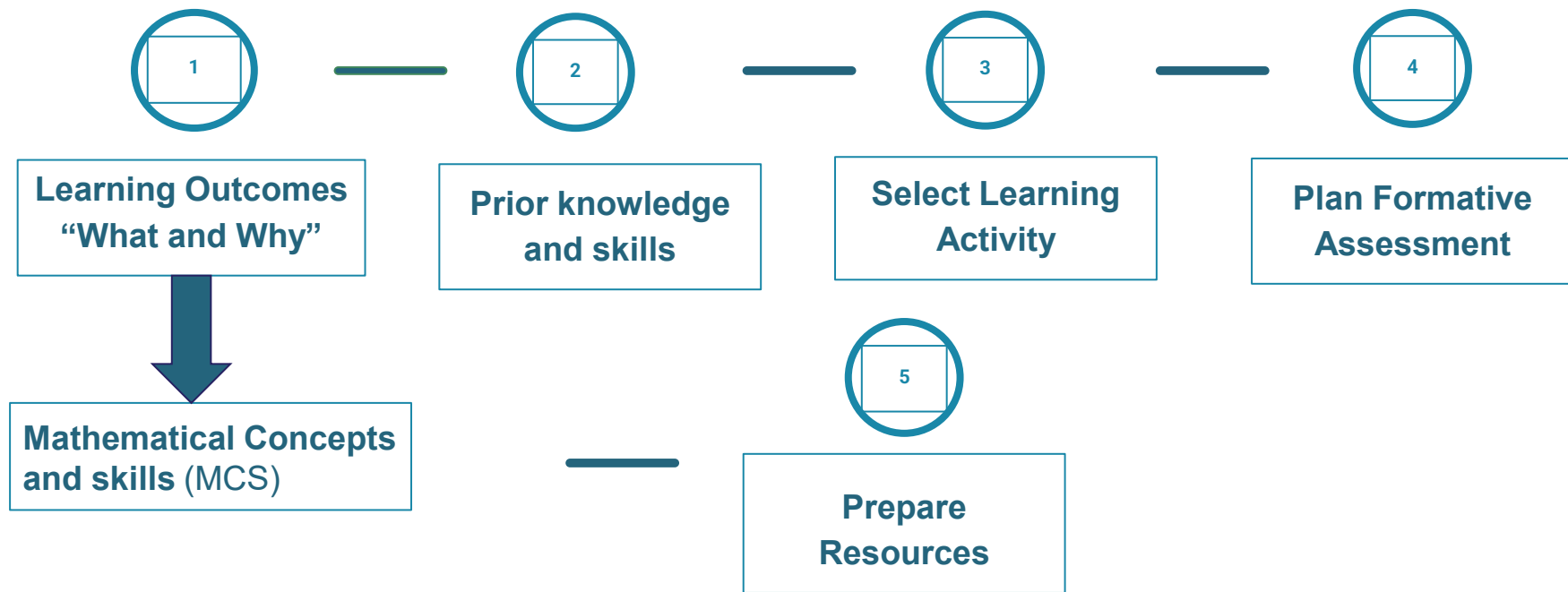
Context: News Headlines



What mathematical ideas are being implied? Implicit? Explicit? What strand of the course does it connect to?



Planning a Unit of Learning



Introducing Mathematical Concepts and Skills



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Underpinning Learning Outcomes

These outcomes
“form the basis for all planning of
teaching and learning in the LCA
mathematical applications
classroom”

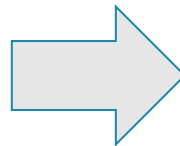
(LCA: Mathematical Applications
Module Descriptor, 2021, p.20)



Planning for teaching and learning

Module 4:
Mathematics and Work
Unit 1: The student will
be able to:

2. Create an estimate
for a job, including
costings such as
materials, labour,
taxes and profit margin



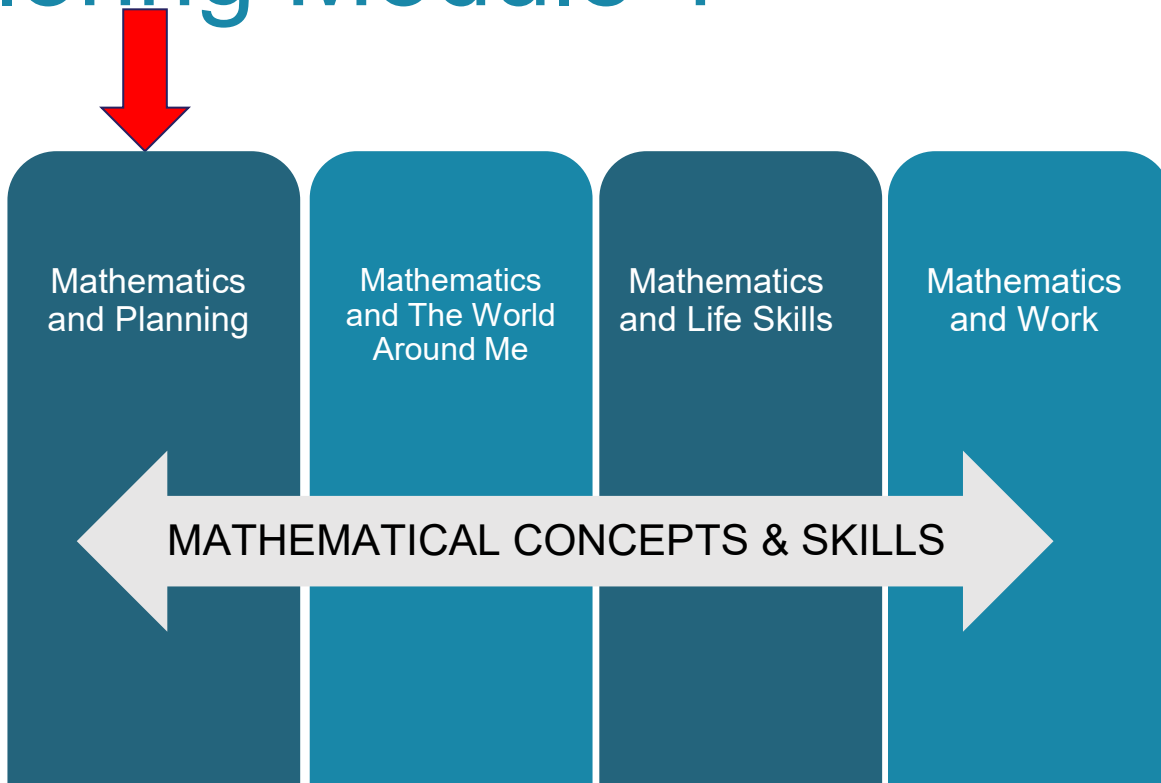
Identify the
Underpinning
Mathematical Concepts
and Skills from the
Learning Outcomes



Mathematical Concepts
and Skills (MCS)



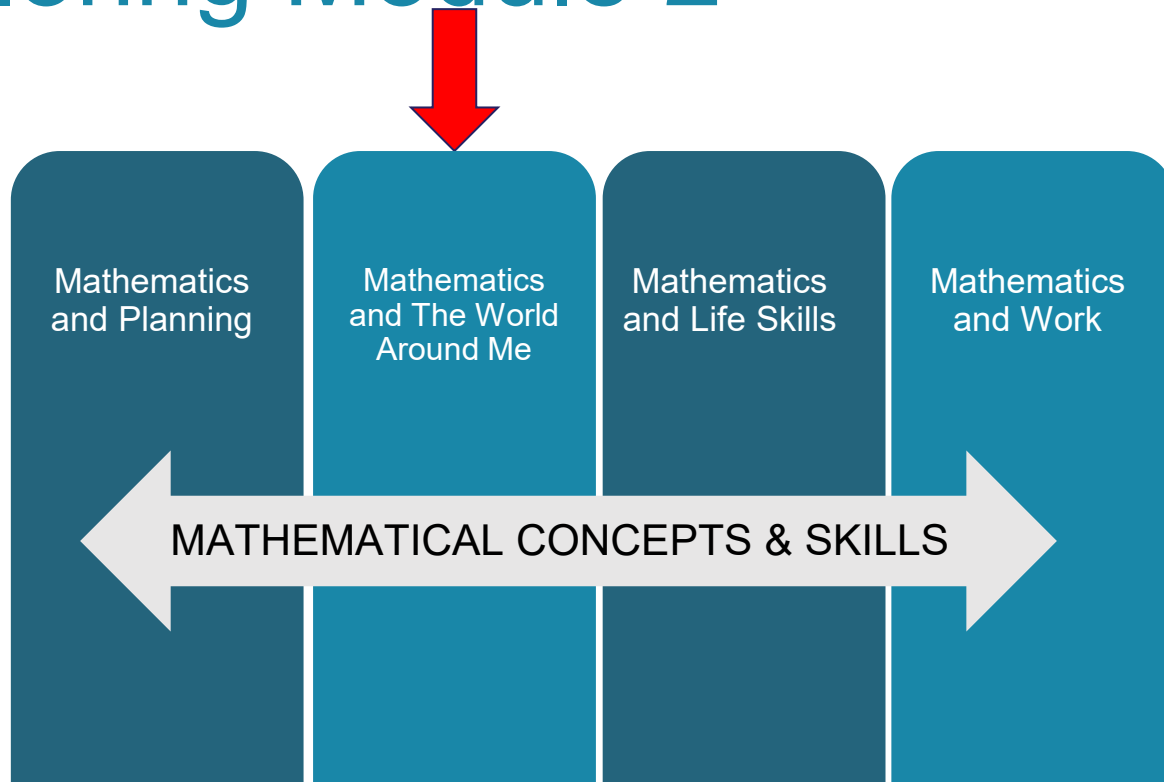
Exploring Module 1



(LCA: Mathematical Applications Module Descriptor, 2021, p.13)



Exploring Module 2



(LCA: Mathematical Applications Module Descriptor, 2021, p.13)



Module 2:

Mathematics and the World Around Me

AIMS

This module aims to provide students opportunity to:

- see the relevance of mathematics to issues encountered by them in their everyday lives
- consolidate and reinforce students' mathematical knowledge and skills
- make and justify decisions with mathematics
- develop confidence in using mathematics to solve problems.



Mathematics and the World around Me

UNIT 1: CURRENT AFFAIRS

Learning outcomes

The learning in this unit is underpinned by the mathematics specified in MCS1-5

The student will be able to:

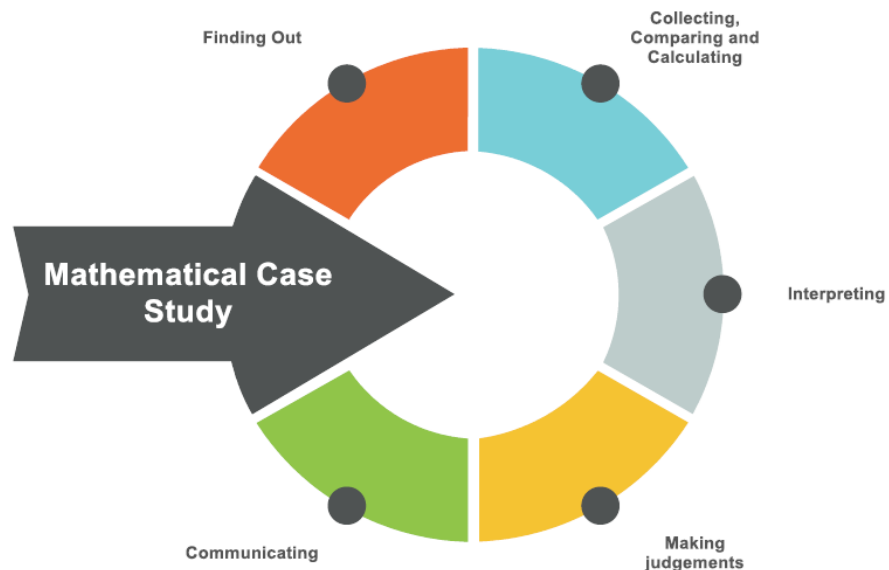
1. **Create** and **interpret** opinion polls or surveys.
2. **Analyse** and **interpret** relevant information including voting data communicated in words/tables/charts or graphs.
3. **Investigate** an issue and use mathematics to **communicate** findings.



**Teacher
Guidelines
Page 28**



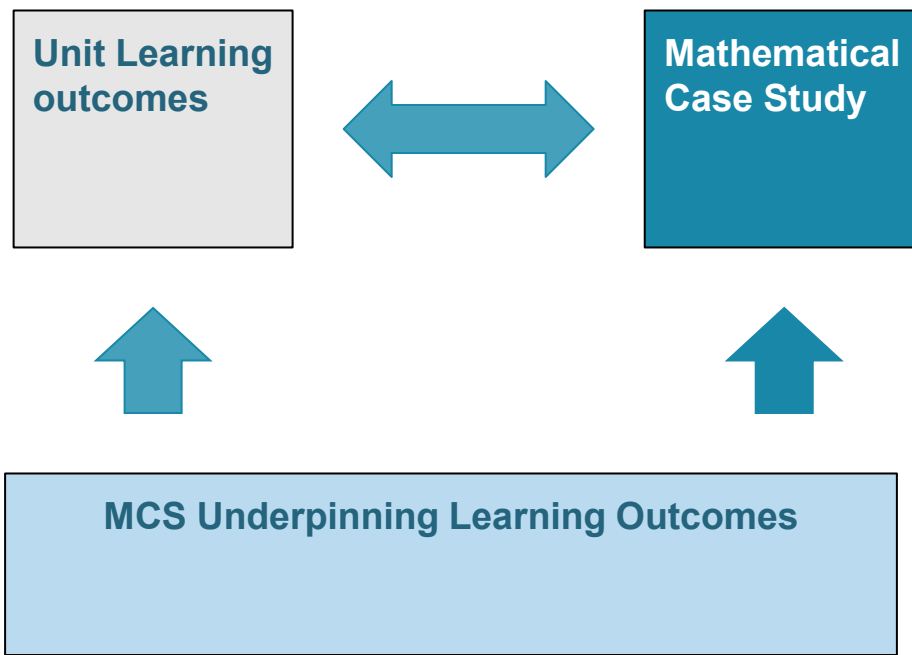
Key Assignment: Mathematical Case Study



1. Finding out
2. Collecting, comparing and calculating
3. Interpretation
4. Making judgements
5. Communicating

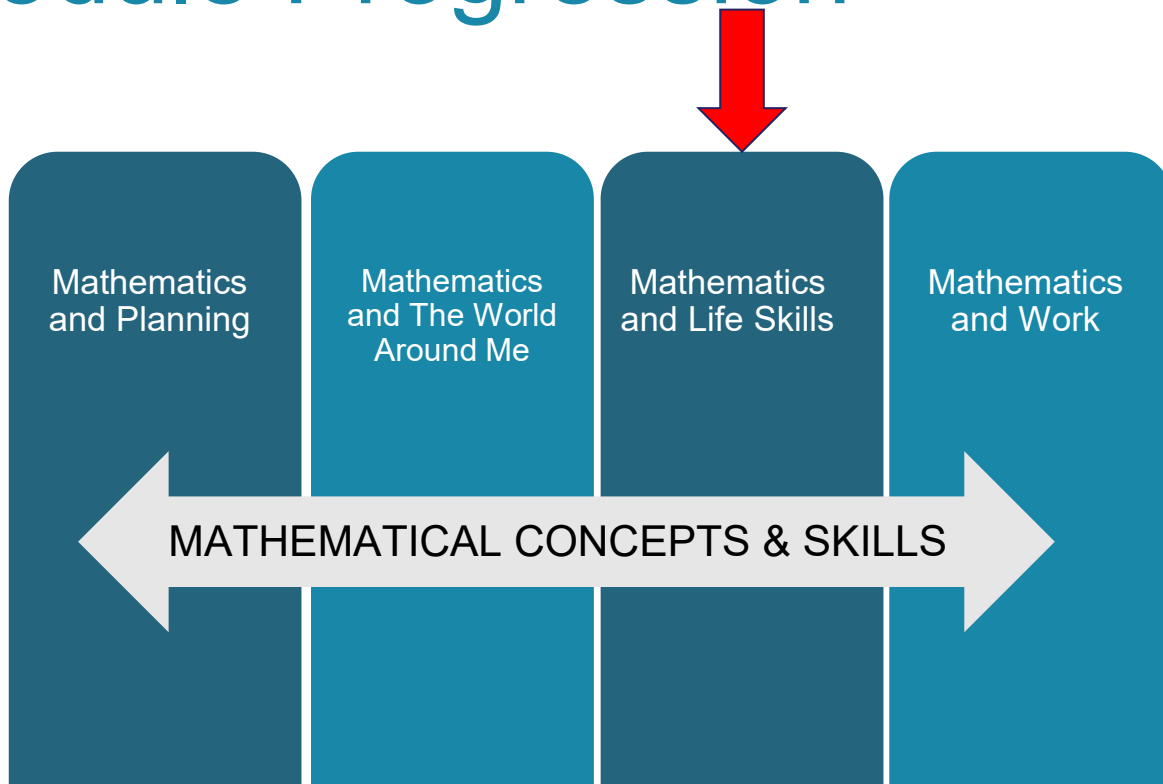


Problem solving in context: Transdisciplinary and Authentic





Module Progression



(LCA: Mathematical Applications Module Descriptor, 2021, p.13)



Authentic Problem: Personal Finance

LO 1. Prepare a personal budget.

Seán's Case Study-

Prepare a personal
budget





Authentic Problem: Personal Finance

LO 1. Prepare a personal budget.

Seán's Case Study-

Prepare a personal
budget

What Questions will Seán
need to consider to identify his
goals?
What do your students need to
consider ?
What might students find
challenging about this activity?

Authentic Problem: Personal Finance



Oide

LO 1. Prepare a personal budget.

LO 3. Analyse and interpret data which impacts on personal finance presented in a variety of ways.

- MCS.1. reason mathematically about problems so that they can:
 - a. make sense of a given problem and represent it using mathematics
 - b. apply their knowledge and skills to solve a problem, including decomposing it into manageable parts and/or simplifying it using appropriate assumptions
 - c. interpret and justify their solution in terms of the original problem and communicate their findings mathematically.
- MCS.2. reason mathematically about problems so that they can:
 - a. perform calculations on positive and negative numbers involving addition, subtraction, multiplication, division, square roots (positive numbers only), and positive whole number

Authentic Problem: Personal Finance



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LO 1. Prepare a personal budget.

LO 3. Analyse and interpret data which impacts on personal finance presented in a variety of ways.

- What happens if the cost of the debts goes up?
- What will happen if your hours of work change?
- What will happen if you get sick and have to take two weeks off?

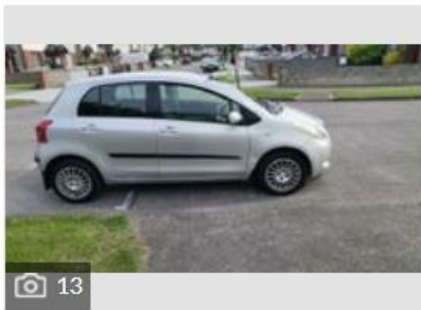
Authentic Problem: Personal Finance



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Seán has got a job, saved up and would like to buy a car.

What factors will Seán need to consider?



Toyota Yaris 1.0 Terra Hatchback Petrol...

Extremely low mileage, great first car. Kept in good...

2006 • 154,497km / 96,000m • 1.0 Petrol

Private
Dublin

What will be the impact on the current budget?

What factors will Seán need to consider around the financing of a loan?

Authentic Problem: Personal Finance



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Comparing 3 year borrowing options

What are some of the different borrowing options?



Individual teacher reflection

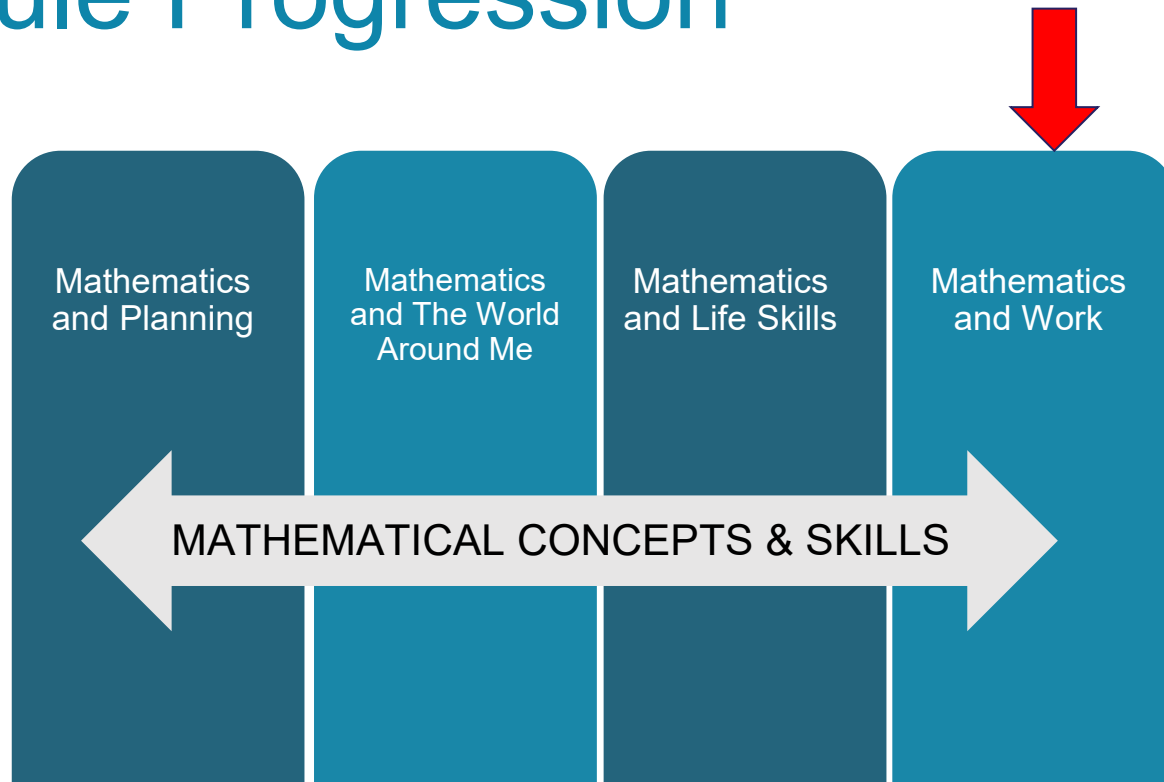
What might students find challenging about this question?

How might you guide them?

How would you bring this learning back to the classroom?



Module Progression



(LCA: Mathematical Applications Module Descriptor, 2021, p.13)



Mathematics at Work

UNIT 1

Students should engage in the learning outcomes outlined in MCS 1-5 through the contextual experiences offered by Mathematics and Work (p. 20-21).

Learning outcomes

The learning in this unit is underpinned by the mathematics specified in MCS1-5.

The student will be able to:

1. **Analyse and interpret** information about income and expenditure represented in words/ equations/tables /graphs or charts.
2. **Create** an estimate for a job, including costings such as materials, labour, taxes and profit margin.
3. **Analyse, interpret and communicate** relevant information in relation to wages, time worked and holidays communicated in words/tables/charts/ payslips or graphs.
4. **Compare and contrast** different job contracts and justify decisions made with mathematics.





Mathematics and Work Activity

The aim of this activity is to calculate your monthly take home pay by investigating a chosen job/career and then use this information to inform your choices about lifestyle and complete a budget.

The task is split into three parts:

Part a) Choose a career option and calculate your monthly income.

Part b) Calculate all of your expenditure under the appropriate headings.

Part c) After completing the activity, you will need to complete the monthly budget.





Mathematics and Work Activity

Learning Outcomes:

LO1 analyse and interpret information about income and expenditure represented in words/equations/tables /graphs or charts.

LO3 Analyse, interpret and communicate relevant information in relation to wages, time worked, and holidays communicated in words/tables/charts/payslips for graphs

MCS:

MCS 1 a, b
and c

MCS 2 a

MCS 5 c



Mathematics and Work Activity

Learning Outcomes:

LO 1

LO 3

What do your students need to consider in identifying career goals ?

What do your students need to consider when completing a payslip?

What support might students need to address this question?

MCS:

MCS 1 a, b
and c

MCS 2 a

MCS 5 c



Mathematics and Work Activity

Learning Outcomes:

LO 1

LO 3

MCS:

MCS 1 a, b
and c

MCS 2 a

MCS 5 c

Group 1: Accommodation

Group 2: Gas and electricity

Group 3: Television, phone and broadband

Group 4: Transportation

Group 5: Food, clothes, entertainment and holidays

- What do your students need to consider in investigating each area of expenditure?
- How could your students represent this information graphically?
- What support might students need to address this question?



Mathematics and Work Activity

Learning Outcomes:

LO 1

LO 3

MCS:

MCS 1 a, b
and c

MCS 2 a

MCS 5 c

What support do your students need to consider when analysing and interpreting the budget?

If you were doing this problem with your students, how might you support them?

How would you bring this learning back to the classroom? What are the next steps?



The Transdisciplinary Nature of Mathematical Applications

LCA Mathematical Applications is inherently a transdisciplinary subject, authentic and relevant to the real world.

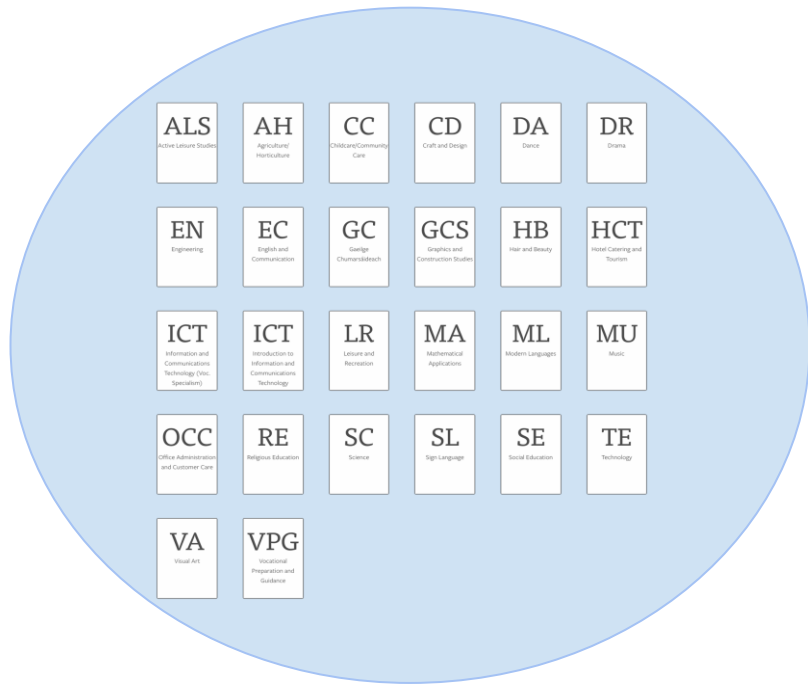
The knowledge and learning gained in LCA Mathematical Applications can be enhanced and utilised across the LCA programme by enriching the tasks, learning and Key Assignments in other areas.

(LCA: Mathematical Applications Module Descriptor, 2021, p.10)

Maths and the World Around Me: Transdisciplinary Links



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- Which of these subjects are **your** students doing at the moment?
- Which subjects are particularly relevant to maths applications module 2?

Transdisciplinary Approach in Action



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Teacher
Voice



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My name is Breda Doherty
and I am the new Leaving Cert Applied



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Student
Voice

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Transdisciplinary Approach in Action



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Student
Voice



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My name is Sarah O'Sullivan

Teacher
Voice

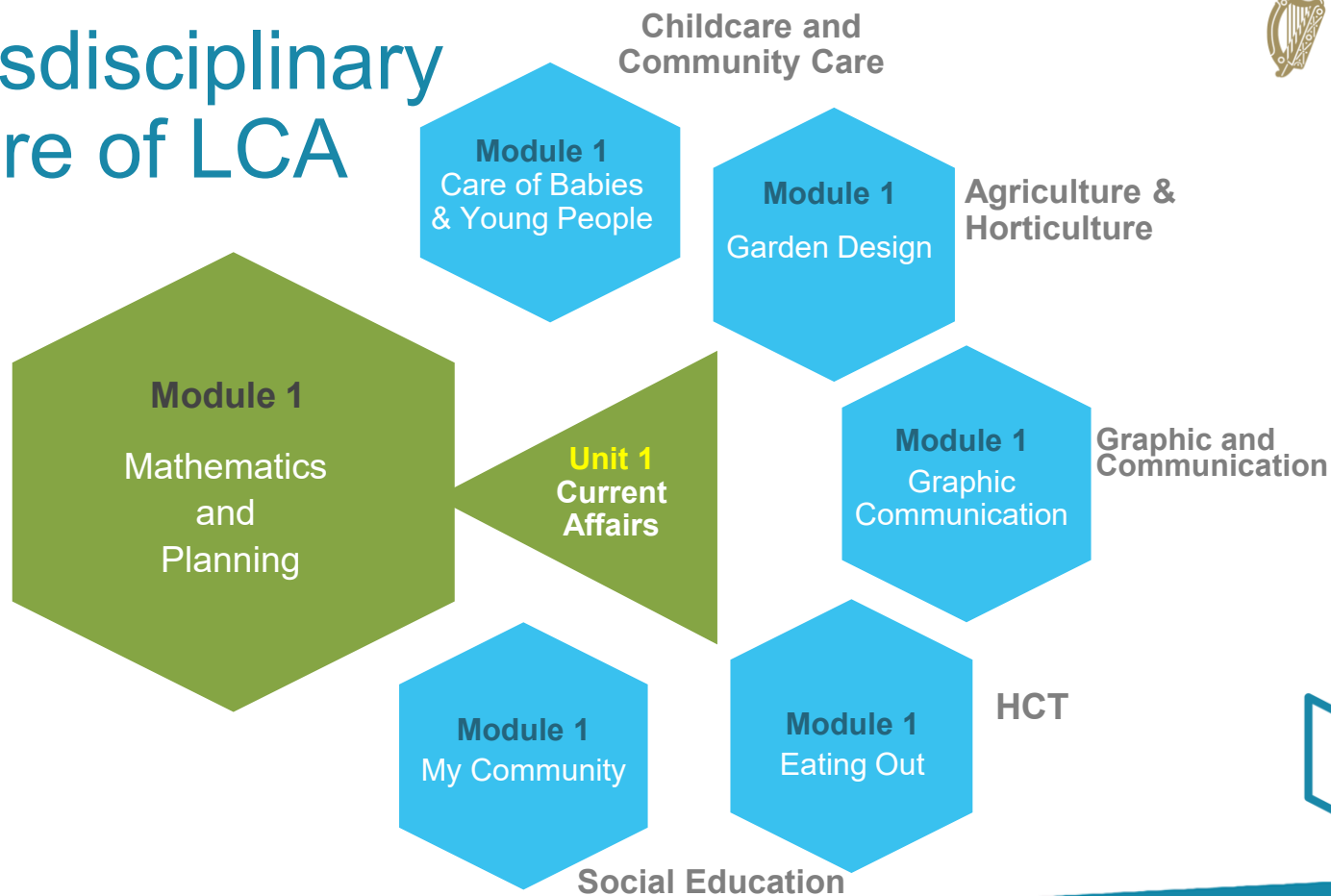
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Transdisciplinary Nature of LCA



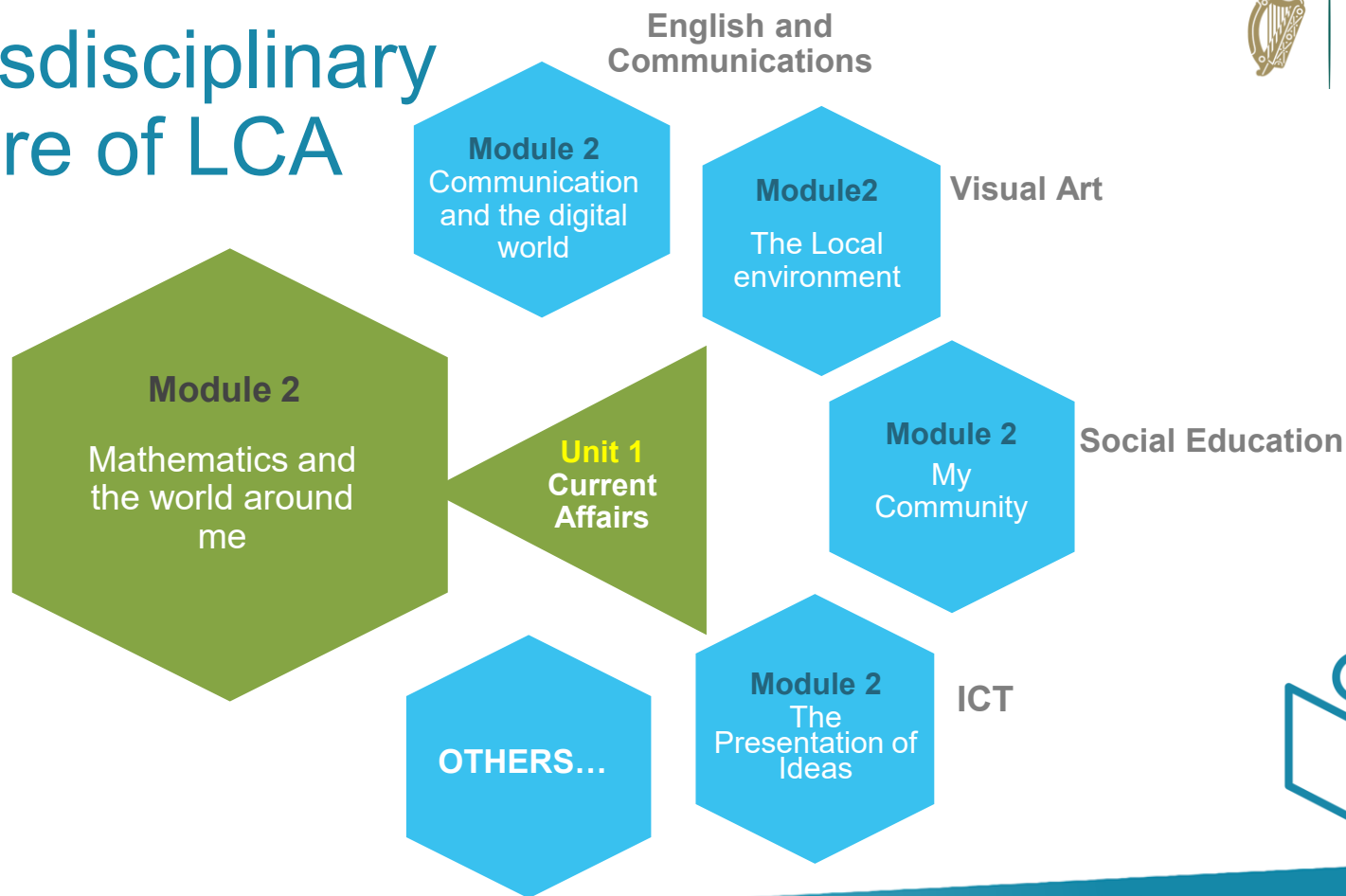
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Transdisciplinary Nature of LCA



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Reflection on Teaching and Learning: Session 2



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In what ways do the teaching and learning strategies used in this session help students apply mathematical concepts to everyday life situations?





Session Two

By the end of this session participants will have:



Explored the Mathematical Applications Module Descriptor



Engaged with rich learning experiences through problem solving



Investigated transdisciplinary links across LCA



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Session Three



Session Three

By the end of this session participants will have:



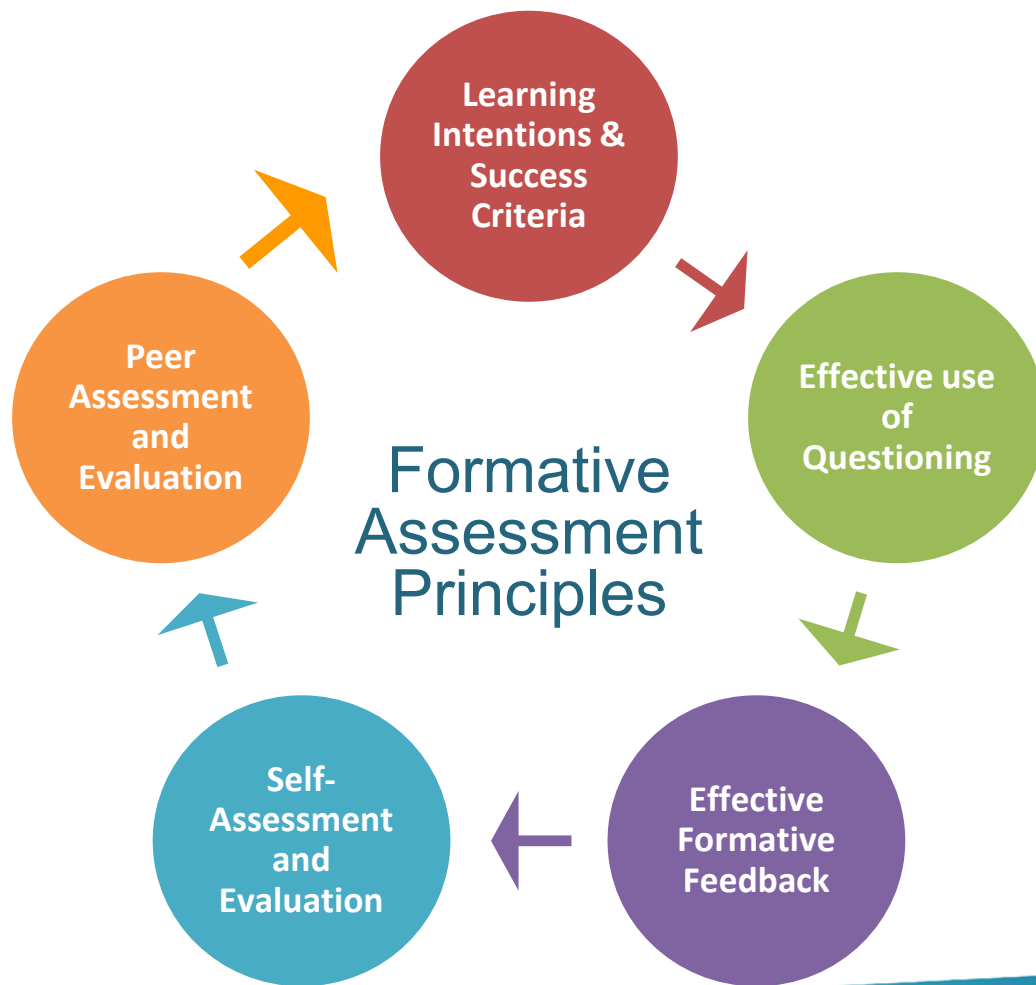
Explored Formative Assessment and Mathematical Applications



Planned a student-centred unit of learning for Mathematical Applications



Investigated the next steps in enacting your vision in your LCA Mathematical Applications class.



Adapted from William & Leahy, (2015) and Wylie et al (2008)



Learning Outcomes



(NCCA, 2019)

Formative Assessment and Mathematical Applications



Oide

LO: Research and plan an event to suit a particular budget



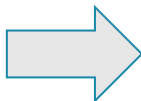
LIs:

Read maps & (24hr) timetables
Estimate/Calculate travel times
Choose suitable insurance
Plan & cost food and accommodation for a group

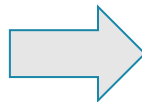


Success criteria:

Fully costed and timed plan with a per-person price.

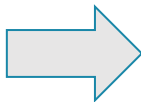


Prepare a written itinerary for an overnight class trip including costs and timings



Students will be able to:

- Survey
- Research
- Calculate
- Cost



Criteria for itinerary:

- I surveyed the class on options
- I calculated distances/travel times
- I researched accommodation options
- I costed food for the group trip
- I broke down the total cost to a per-person price.



Keeping Track of the MCS



Using ICT to Assess Prior Knowledge



Oide



Google Forms

Platforms				
Apple	ClassDojo	Edmodo	Google Workspace for Education	Irish Homework.ie
Microsoft Education	Schoology	Schoolwise	Seesaw	Showbie

scoilnet

GO TO
PRIMARY

GO TO
POST-PRIMARY

Search Resources

Browse Resources

Add a Resource +

Choose a level

No options

No options

No options



I= Eedi

Tacú leis an bhFoghlaim
Ghairmiúil i measc Ceannairí
Scoile agus Múinteoirí

Supporting the Professional
Learning of School Leaders
and Teachers



Planning for All: Census at School

“The best way of showing students what success criteria are is to show them what the end product looks like”

John Hattie, 2012



Census AtSchool **CensusAtSchool 2021/2022 Questionnaire**

<p>1. Are you:</p> <p><input type="checkbox"/> Female <input type="checkbox"/> Male</p>	<p>9. a) Are you a member of a sports club (outside of any school club)?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>15. Rank the following internet activities from the most used to the least used?</p> <ul style="list-style-type: none"><input type="checkbox"/> Watching videos<input type="checkbox"/> Messaging/chatting<input type="checkbox"/> Social media sites<input type="checkbox"/> Listening to music<input type="checkbox"/> Creating content<input type="checkbox"/> Online gaming<input type="checkbox"/> Homework<input type="checkbox"/> Looking for information
<p>2. a) Please state your present age in completed years.</p> <p><input type="text"/> years</p>	<p>9. b) List any sport/physical activity that you have done with a sports or activity club (not school club) over the last 12 months?</p> <p><input type="text"/></p>	
<p>2. b) What year are you in at school?</p> <p><input type="text"/> Year e.g. 5th Year</p>	<p>10. How has your level of physical activity been affected since the pandemic?</p> <p><input type="checkbox"/> Increased <input type="checkbox"/> Decreased <input type="checkbox"/> Remains the same</p>	<p>16. a) On a scale of 0 to 100, how has the pandemic lockdown impacted your mental health?</p> <p>Not at all Very much</p> <p>0 100</p>
<p>3. In what county do you live?</p> <p><input type="text"/></p>		
<p>4. In what country were you born?</p> <p><input type="text"/></p>		



Planning for All: Diagnostic Questions

I= Eedi

- MCS.2. reason mathematically about problems so that they can:

- a. perform calculations on positive and negative numbers involving addition, subtraction, multiplication, division, square roots (positive numbers only), and positive whole number
- b. use the order of arithmetic operations, including the use of brackets
- c. present answers to the degree of accuracy required, for example to the nearest whole number, to the nearest thousand, to two decimal places
- d. use appropriate units and convert between them, including, but not exclusively, mm, cm, m, km, seconds, minutes, hours, days, €k (i.e. thousands), €million, degrees, etc.
- e. flexibly convert between fractions, decimals, and percentages
- f. use and understand ratio and proportion.

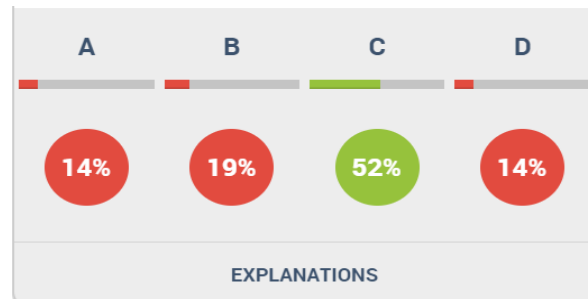
What is $\frac{4}{5}$ as a percentage?

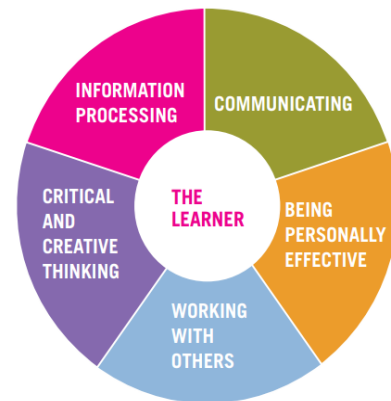
a) 20%

b) 45%

c) 80%

d) 40%





communicated in words/tables/

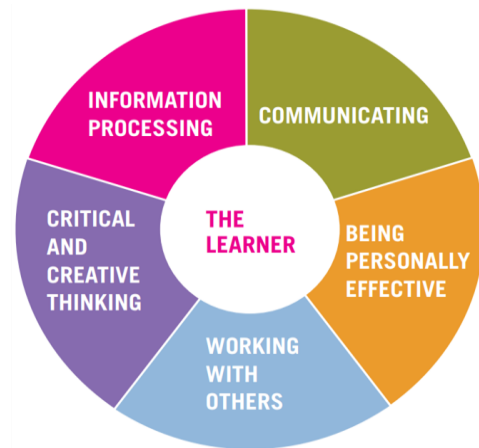
3S.



Designing Rich Learning Experiences

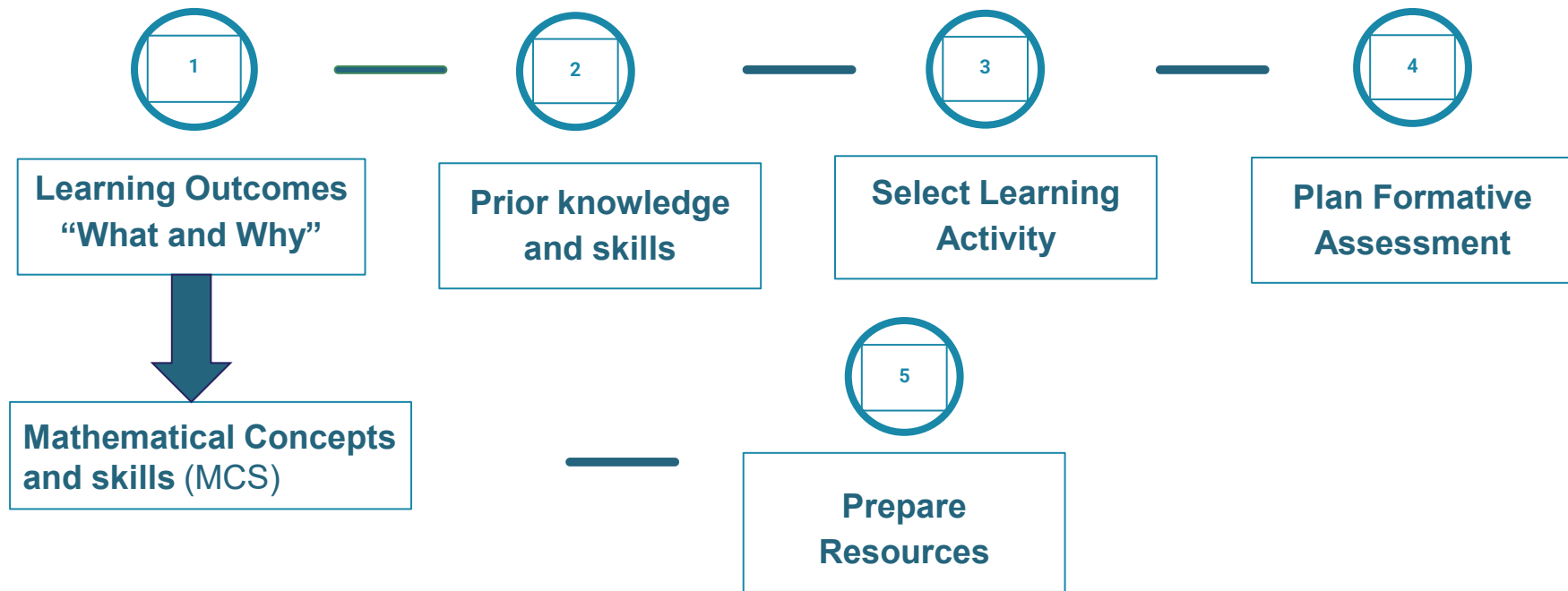
Learning activity selection allows us to effectively engage with the specification and identify connections between learning outcomes and MCS's.

Learning activities that make connections with the real world and other modules allows students to gain a deeper understanding of what they are learning





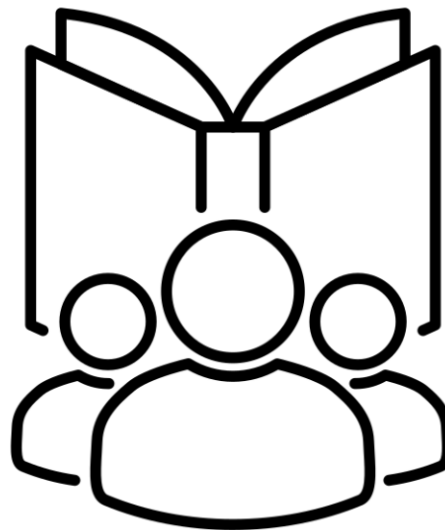
Planning a Unit of Learning





Sharing the Learning

Gallery Walk





Next Steps

Consider the following reflective questions:

- What new learning have I come to?
- What are the implications for my teaching?
- What will you do differently to maximise learning for ALL learners in your class?





Session Three

By the end of this session participants will have:



Explored Formative Assessment and Mathematical Applications



Planned a student-centred unit of learning for Mathematical Applications



Investigated the next steps in enacting your vision in your LCA Mathematical Applications class.



LCA Evaluation 2025/26





Oide

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Ghairmiúil i measc Ceannairí
Scoile agus Múinteoirí

Supporting the Professional
Learning of School Leaders
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Míle Buíochas

