

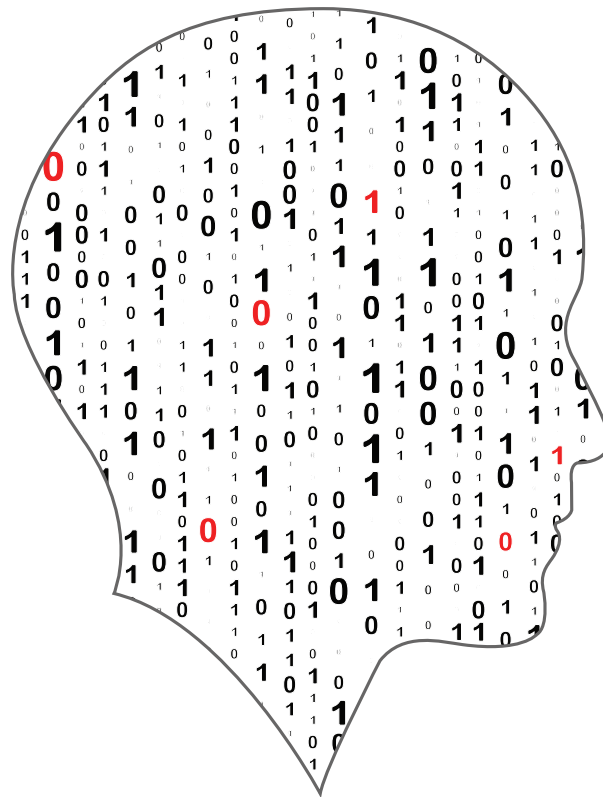


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LEAVING CERTIFICATE
COMPUTER SCIENCE

National Workshop 1

LCCS Team



Frank Kehoe – Frankkehoe@PDST.ie



Joe English – Joeenglish@PDST.ie



slack

Workspace = pdstcs



@PDSTcs

Evening Schedule

5.30pm - 6.00pm	Arrival Tea / Coffee
6.00pm - 7.30pm	Session 1 - Introduction
7.45pm	Dinner

Key Messages

- Computer Science is a subject for everybody.
- There are many ways to use the LCCS specification.
- All learning outcomes are interwoven and can be studied in any order.
- LCCS can be effectively mediated through the use of a constructivist pedagogical orientation.
- Digital technologies have the potential to enhance collaboration, learning and reflection.

Session 1

Culture and Expectations

Leaving Certificate Co... [Search] [Menu]

Leaving Certificate Computer Science - Phase 1 Schools
4 views
SHARE EDIT

All Schools - Phase 1

- Abbey Vocational School Donegal Town
- Breifne College
- St Vincent's Secondary School
- Bush Post Primary School
- Castleblayney College
- St Eunan's College
- Sacred Heart Secondary School Clonakilty
- Coláiste an Chraoibhin
- Carrigaline Community School
- Colaiste Choilm
- Christ King Girls School
- Mayfield Community School
- Moate Community School
- St Brigids School
- CBS Secondary School, Ennistymon
- Coláiste na Ríochta
- Rice College
- Colaiste Chiarain
- Le Chéile Secondary School
- Clongowes Wood College SJ
- Coláiste Pobail Setanta College
- Stratford College
- Coláiste Mhuire

Map data ©2018 GeoBasis-DE/BKG (©2009), Google Terms 50 km

<https://drive.google.com/open?id=1ld988Dv9-L5z6CHLoM3e6ixZmYeeqTLV&usp=sharing>



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Teachers are the Key

Leader &
Champion



Privileged Place

Bring Different Experiences

Questions:

1. What should the culture be within the group?
2. What expectations do you have from each other?



Mentimeter

- **URL = www.menti.com**
- **Code = 980571**



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The Role of the PDST

What we are not

- . Evaluators
- . Policy Makers
- . Curriculum Developers

What we are

- . Teachers & school leaders
- . Teacher Educators
- . Facilitators / Enablers
- . Advocates of lifelong learning

Growth Mind Set



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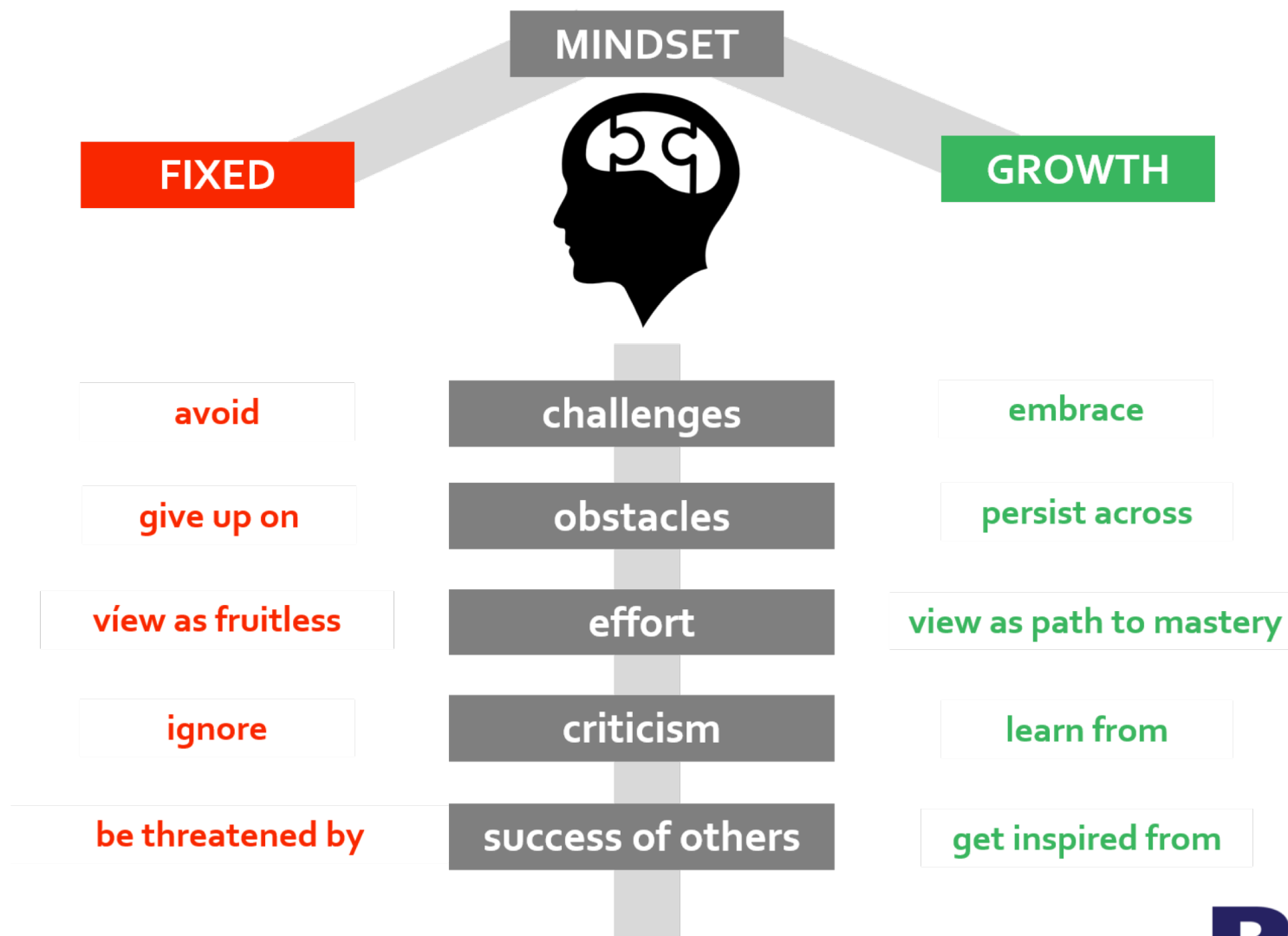
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Growth Mind Set



THE POWER OF YET!



I CAN'T
DO THIS...
YET

THIS DOESN'T
WORK...
YET

I'M
NOT GOOD
AT THIS...
YET

I DON'T
UNDERSTAND...
YET

I DON'T
KNOW THE
ANSWER...
YET

CS For All

‘The Leaving Certificate Computer Science specification is designed for all students.’

‘It applies to many aspects of students’ lives and is therefore relevant to a wide range of student interests.’

LCCS Specification, p2

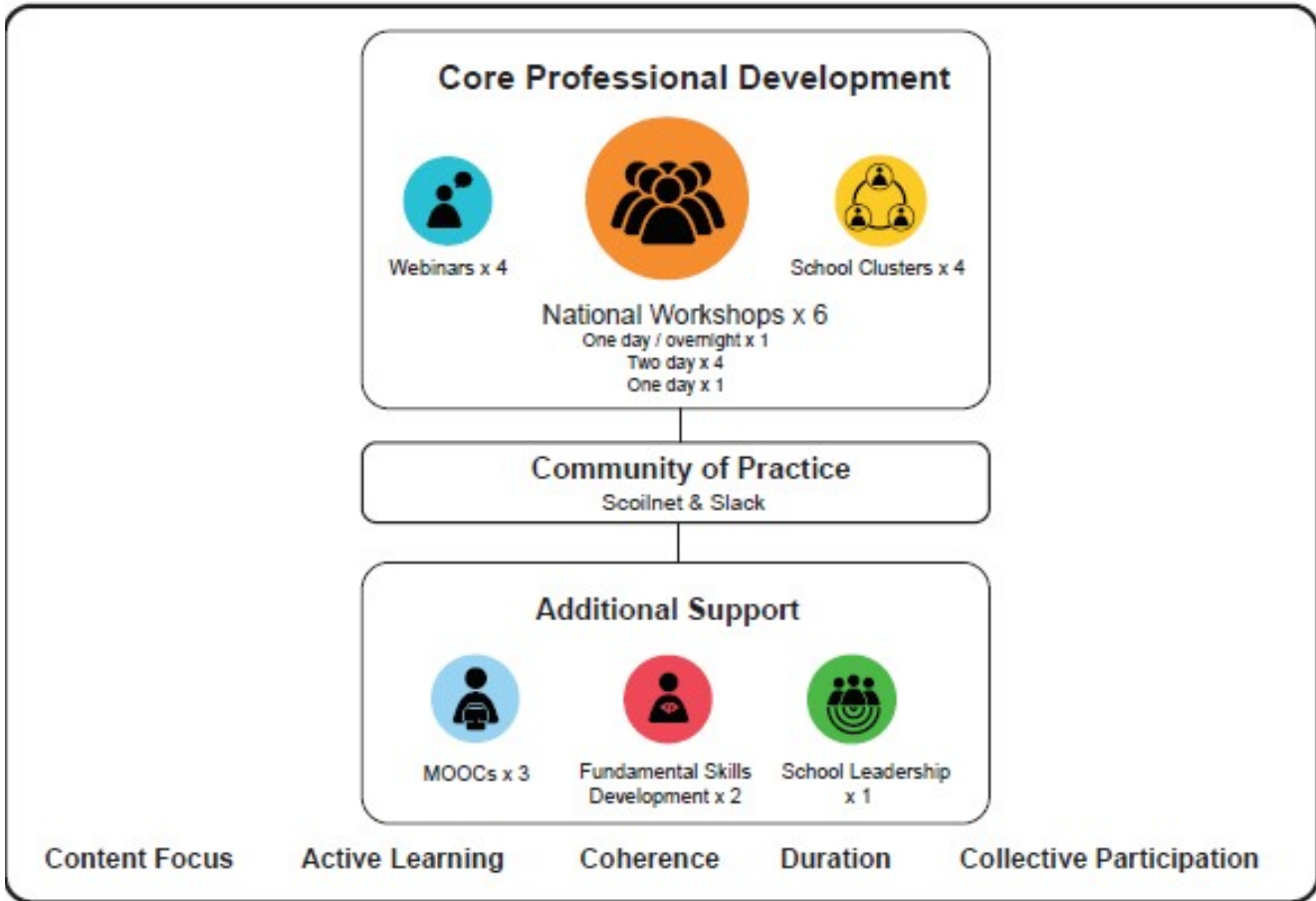


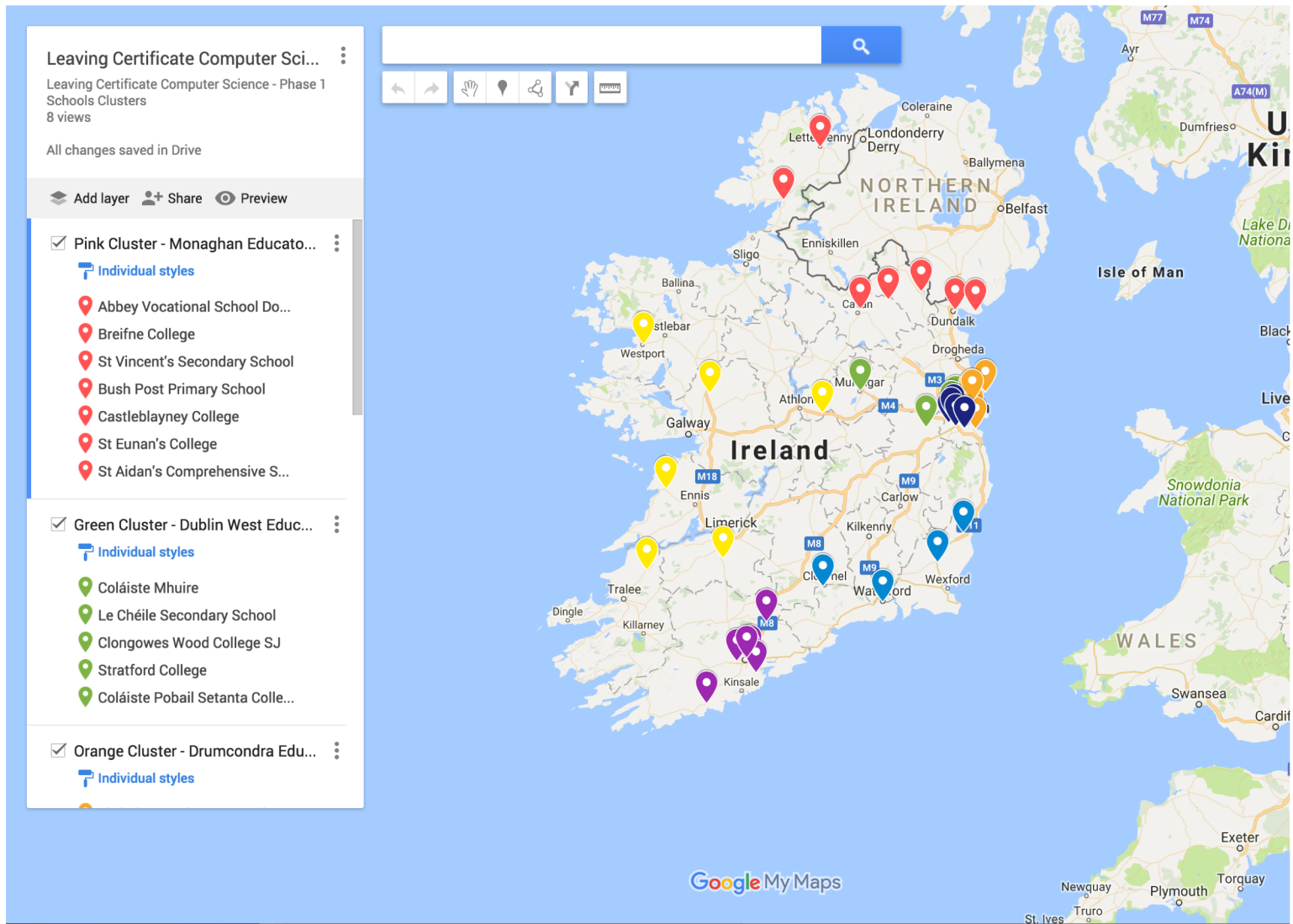
Ice Breaker



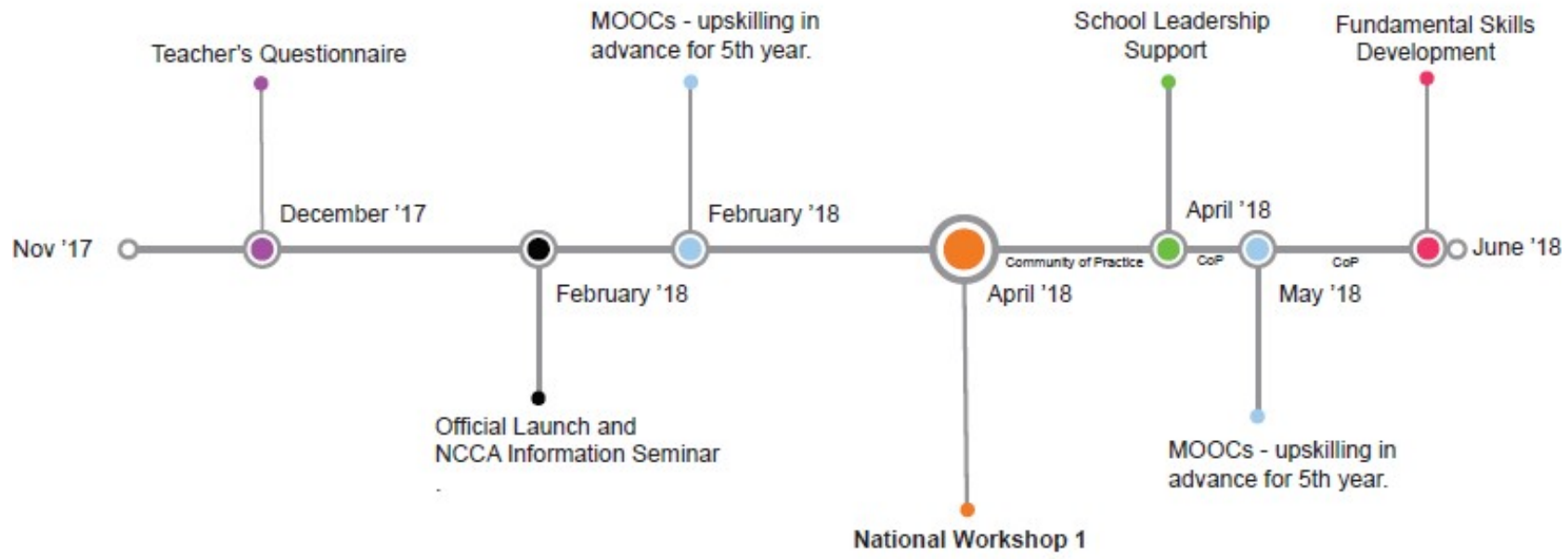
CPD Framework Review







<https://drive.google.com/open?id=10cwKQBaqvMQN12lqzfi7PrjiwOWuHNeB&usp=sharing>



Timeline - Round 0



Timeline - Round 1 - 5th Year

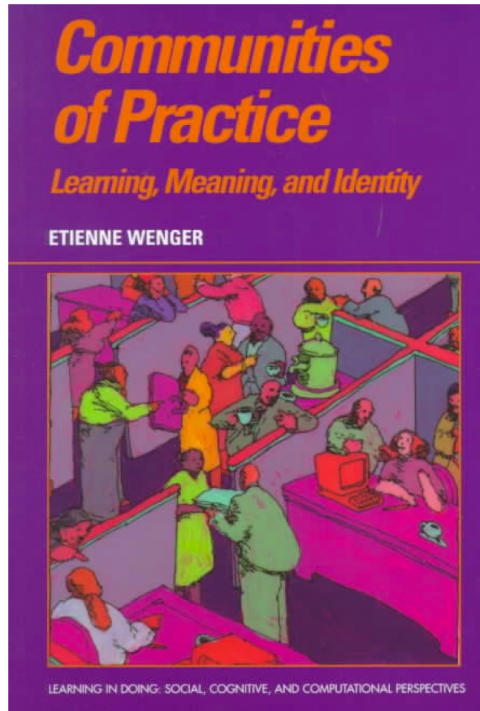


Timeline - Round 2 - 6th Year

Dates for your Diary for 2018

National Workshop 1	Monday 30 th April & Tuesday 01st May 2018
School Leadership Support (Principals)	Wednesday 9 th May 2018
MOOC II released (online)	Wednesday 16 th May 2018
Skills Development	Wednesday 23 th , Thursday 24 th & Friday 25 th May 2018 (Cohort 1) Monday 28 th , Tuesday 29 th & Wednesday 30 th May 2018 (Cohort 2)
National Workshop 2	Thursday 6 th September & Friday 7 th September 2018 (Cohort 2) Monday 10 th September & Tuesday 11 th September 2018 (Cohort 1)
Cluster 1 Meetup	October - details will be given out at National Workshop 2.
Webinar (online)	November - details will be given out at National Workshop 2.

Community of Practice

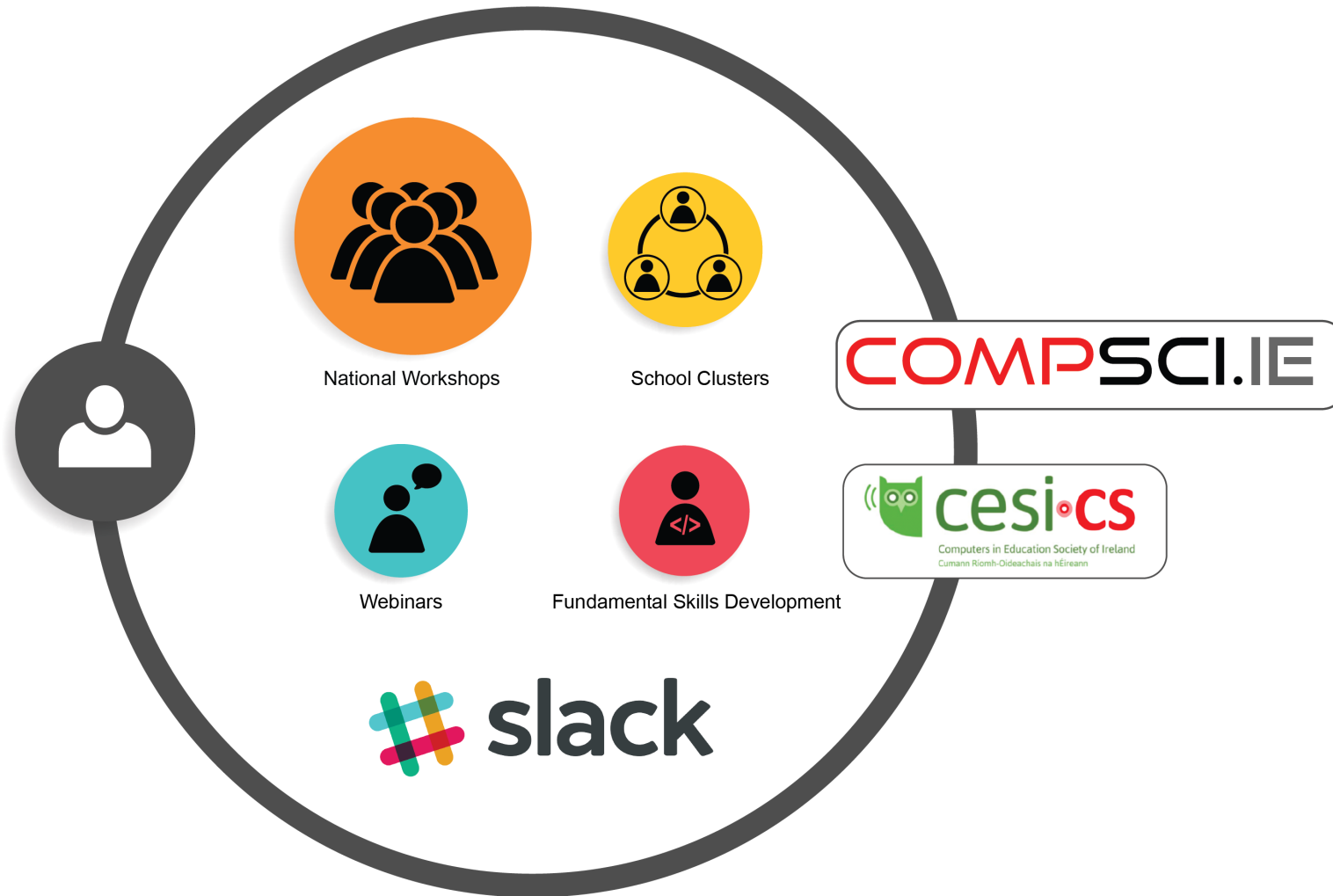


‘Groups of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly’

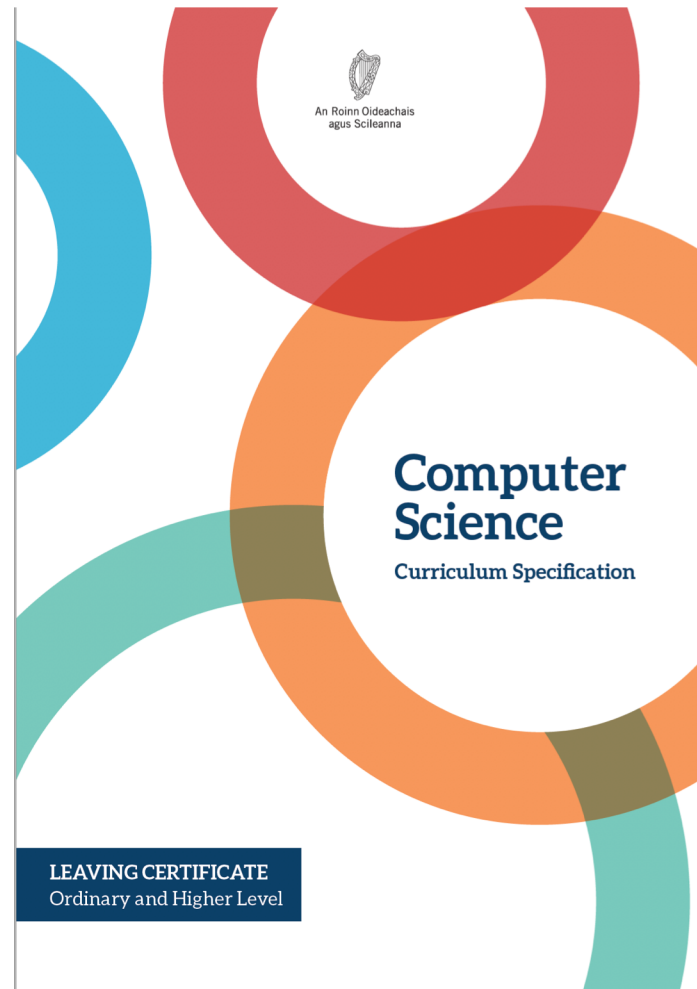
‘Engage in a process of collective learning in a shared domain of human endeavor’

- Etienne Wenger

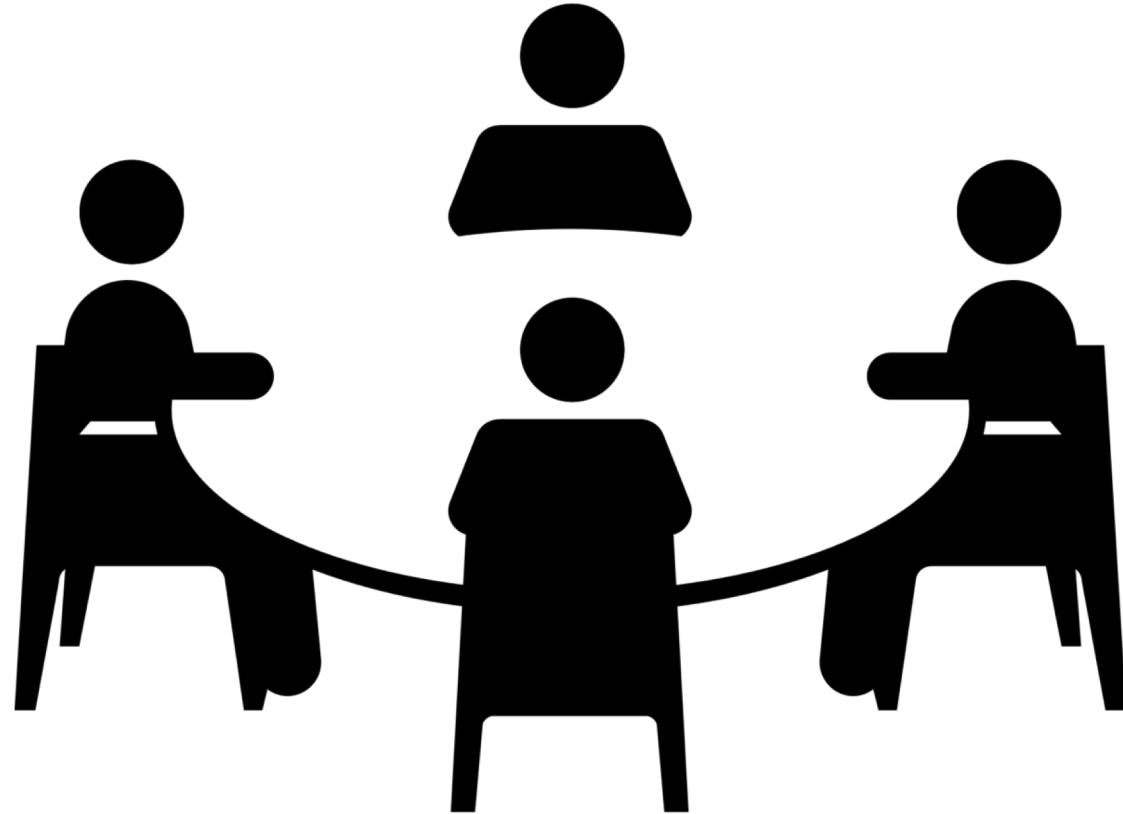
LCCS Community of Practice



Leaving Certificate Computer Science Curriculum Specification



Group Activity



Group Activity - Instructions

- 1 - Each group will be given a flip chart and a marker.*
- 2 - Each group should nominate a chair and a note taker.*
- 3 - Each group will be given a section of the curriculum specification document to read, dissect and break down further (excluding the LOs).*
- 4 - Each group will present you finding to the other groups.*

Groups:

- Group 1 : Senior Cycle
- Group 2 : Rationale / Aim / Objectives
- Group 3 : Related Learning
- Group 4 : Structure of LCCS
- Group 5 : Key Skills
- Group 6 : Teaching & Learning - ALTs
- Group 7 : Teaching & Learning - Differentiation
- Group 8 : Assessment

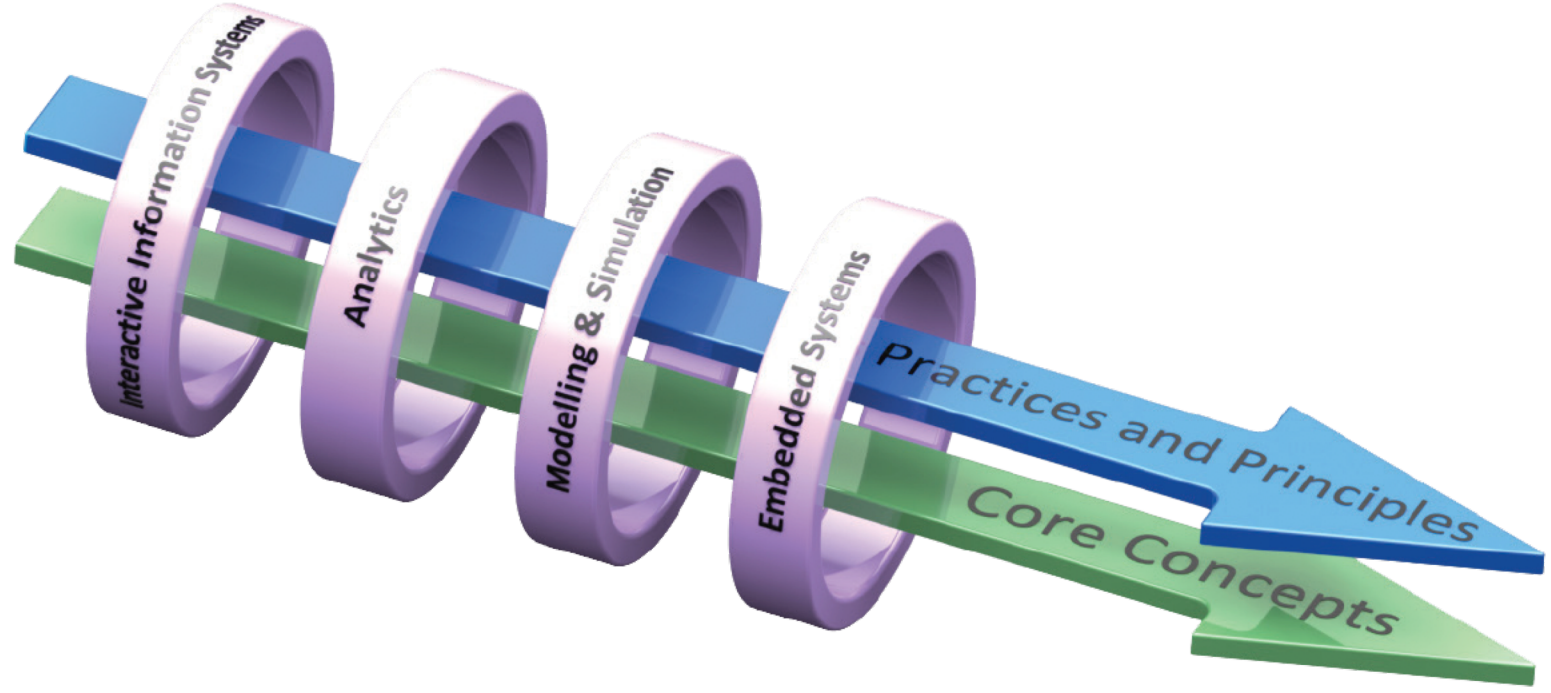
5 Key Skills at Senior Cycle



LCCS Strands

Strand 1: Practices and principles	Strand 2: Core concepts	Strand 3: Computer science in practice
<ul style="list-style-type: none">▶ Computers and society▶ Computational thinking▶ Design and development	<ul style="list-style-type: none">▶ Abstraction▶ Algorithms▶ Computer systems▶ Data▶ Evaluation/Testing	<ul style="list-style-type: none">▶ Applied learning task 1<ul style="list-style-type: none">- Interactive information systems▶ Applied learning task 2 - Analytics▶ Applied learning task 3<ul style="list-style-type: none">- Modelling and simulation▶ Applied learning task 4<ul style="list-style-type: none">- Embedded systems

LCCS Interwoven



LCCS Assessment

Component	Percentage
End-of-course examination ▶ Computer-based assessment of learning outcomes	70
Coursework assessment ▶ One computational artefact with report	30
Total	100

Question Board



Workspace = pdstcs.slack.com

pdstcs

#general ☆ | 👤 2 | 📄 0 | Company-wide announcements and work-based matters

All Threads

Channels

- # general
- # question-board
- # random

Direct Messages

- Frank Kehoe (you)
- Joe English

+ Invite People

Apps

general

[@Joe English](#) created this channel on November 17th, 2017. This is the very beginning of the **# general** channel. Purpose: This channel is for workspace-wide communication and announcements. All members are in this channel. ([edit](#))

[+ Add an app](#) [👤 Invite others to this channel](#)

November 17th, 2017

Joe English 4:16 PM
joined #general along with Frank Kehoe.

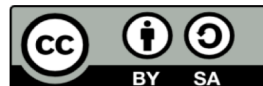
Message #general

Tomorrow's Schedule

09.00am - 11.00am	Session 2 - Subject Specification
11.00am - 11.30am	Coffee & Stretch Break
11.30am - 1.00pm	Session 3 - Experiencing Problem Solving (Thru the lens of a learner)
1.00pm - 1.45pm	Lunch
1.45pm - 3.45pm	Session 4 - Pedagogy, Reflection and Resource Development
3.45pm - 4.00pm	Wrap up



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