

# Practicing 21<sup>st</sup> Century Skills in higher education

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- Nature of the 21<sup>st</sup> century
- Skills required for 21<sup>st</sup> century
- Importance of 4C's in education
- Problem based learning & flipped classroom
- Challenges and opportunities



**21<sup>st</sup> Century**



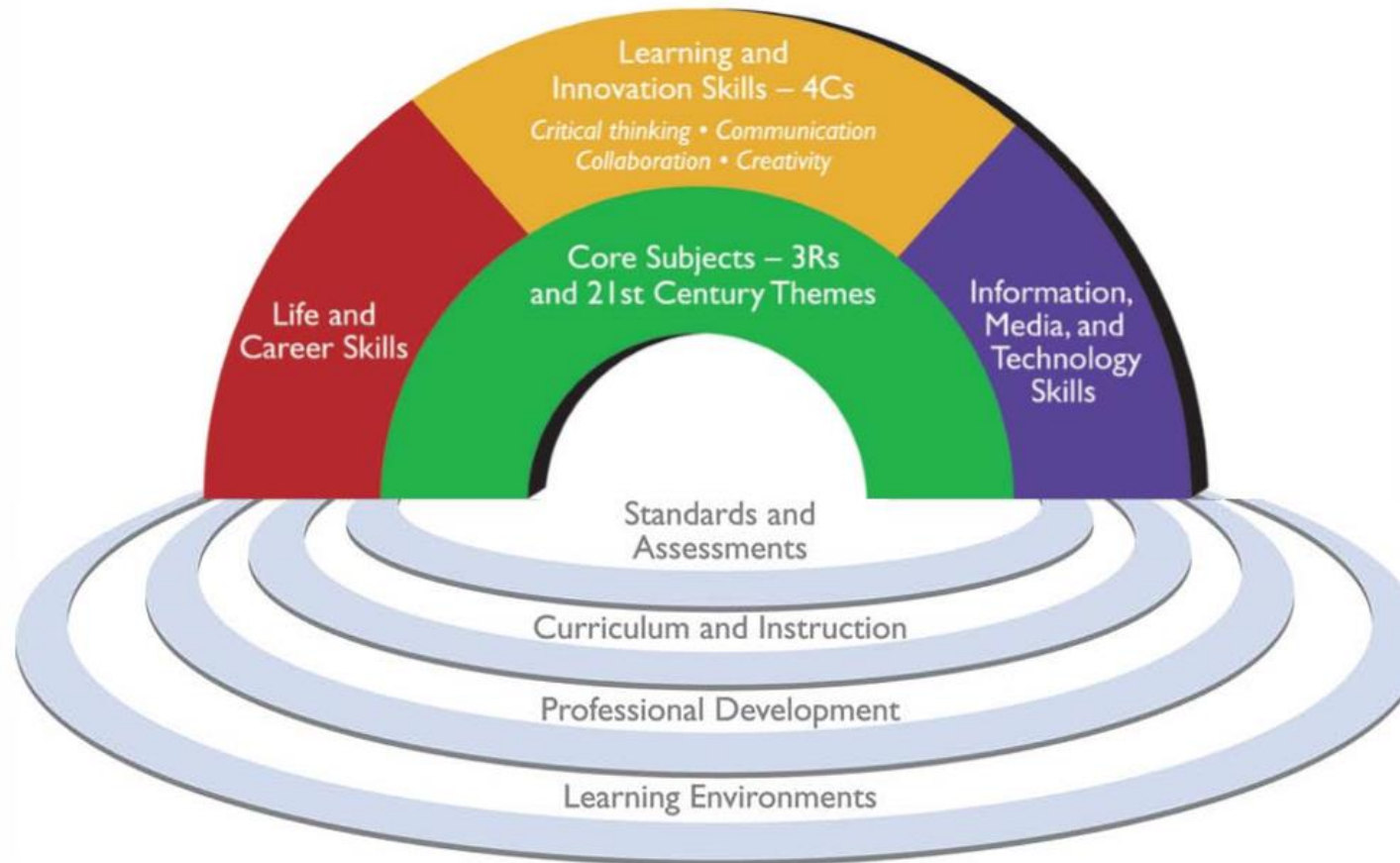
# Classifying 21<sup>st</sup> century skills

## Different institutions and organizations

- P21 (Partnership for 21st Century Learning)
- OECD (Organization for Economic Co-operation and Development)
- ASIA Society (Asia Society Partnership for Global Learning)
- ISTE (International Society for Technology in Education (Voogt and Roblin, 2010).

# 21<sup>st</sup> Century Skills P21 Framework

## 21st Century Student Outcomes and Support Systems



# 21<sup>st</sup> Century Skills at a glance

## Core subjects and 21<sup>st</sup> Century Themes

1. Environmental literacy 2. Global awareness 3. Financial literacy 4. Health literacy 5. Civic literacy

### Learning and Innovative Skills (4 C's)

### Life and Career Skills

### Information, Media, and Technology skills

1. Creativity

1. Productivity and accountability

1. Media literacy

2. Critical thinking

2. Leadership and responsibility

2. Information literacy

3. Collaboration

3. Flexibility and adaptability

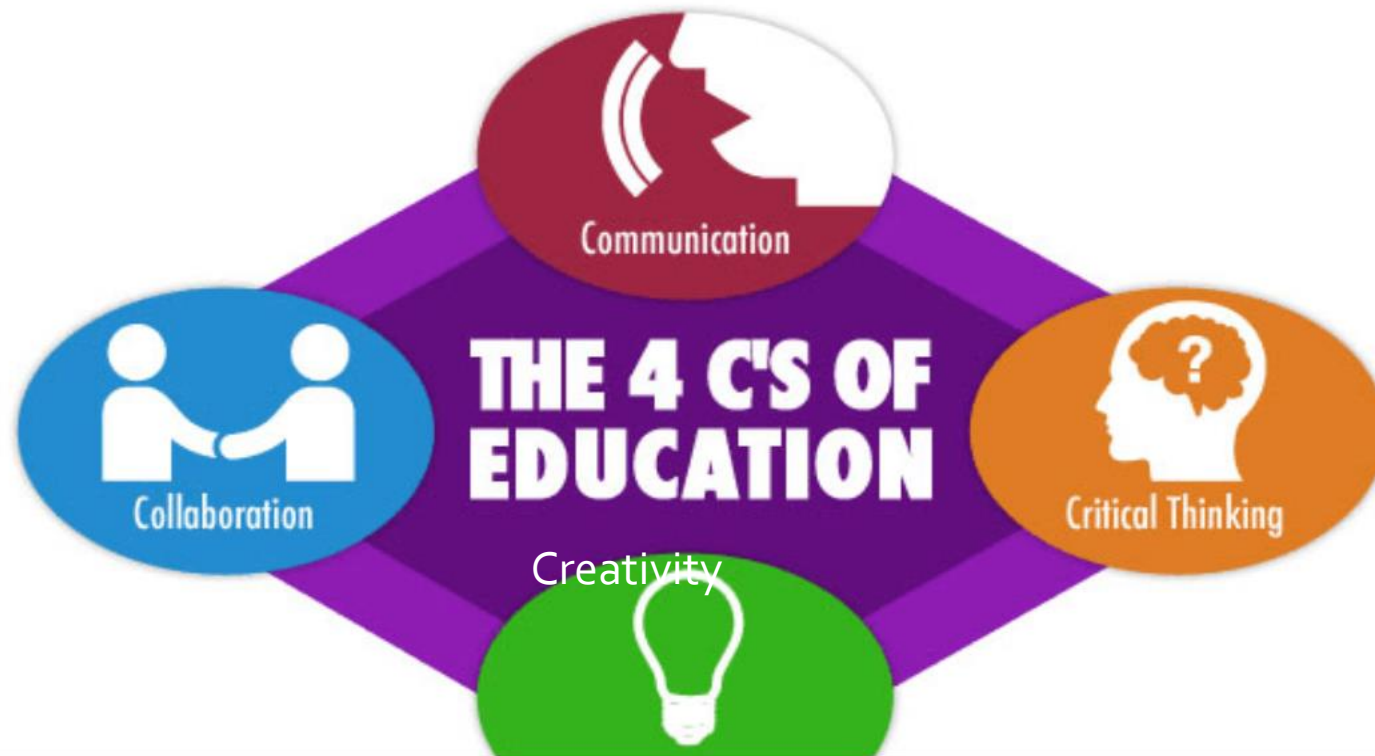
3. Information communication technology literacy

4. Communication

4. social and cross-cultural skills

5. Initiative and self-direction

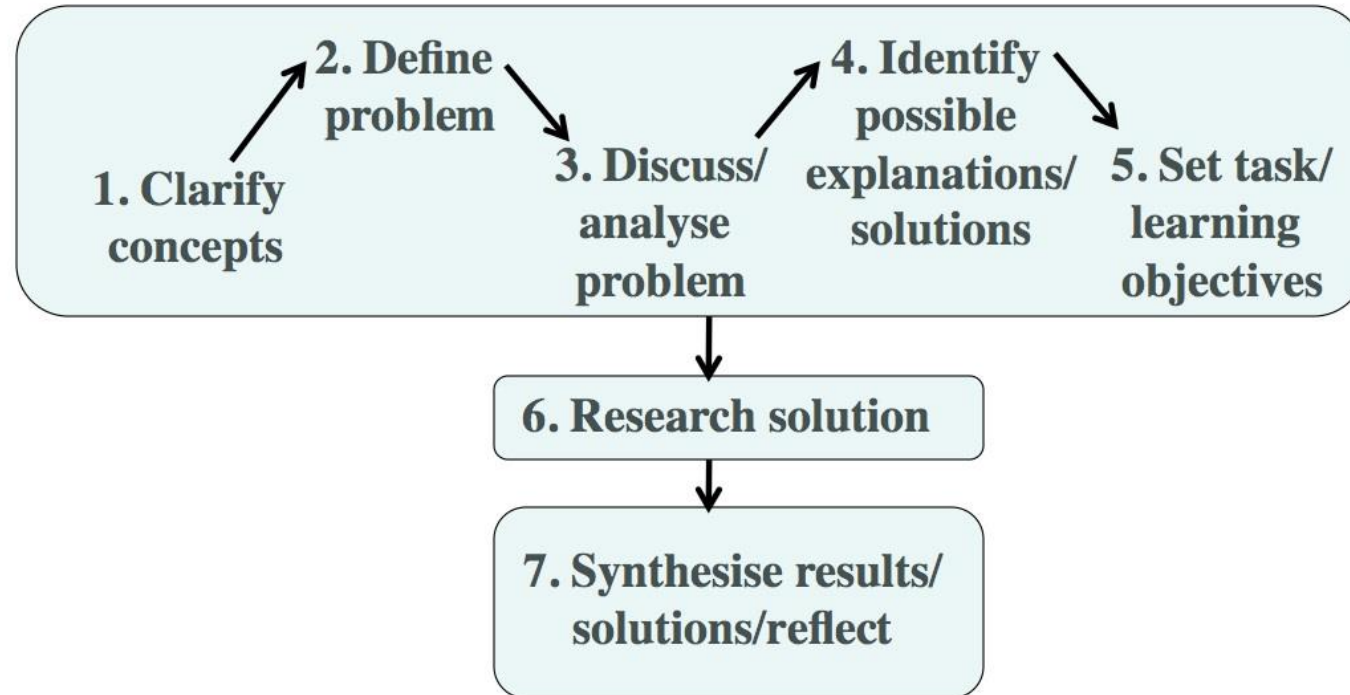
# Learning and Innovation Skills 4C's





# PBL Model

## The Maastricht Seven-Jump Method for PBL tutorials



# LOTS ↔ HOTS

## Bloom's cognitive domain (Six sub-domains of cognitive domain)

### Lower Level Learning

Design	
1. Remember	2. Understand

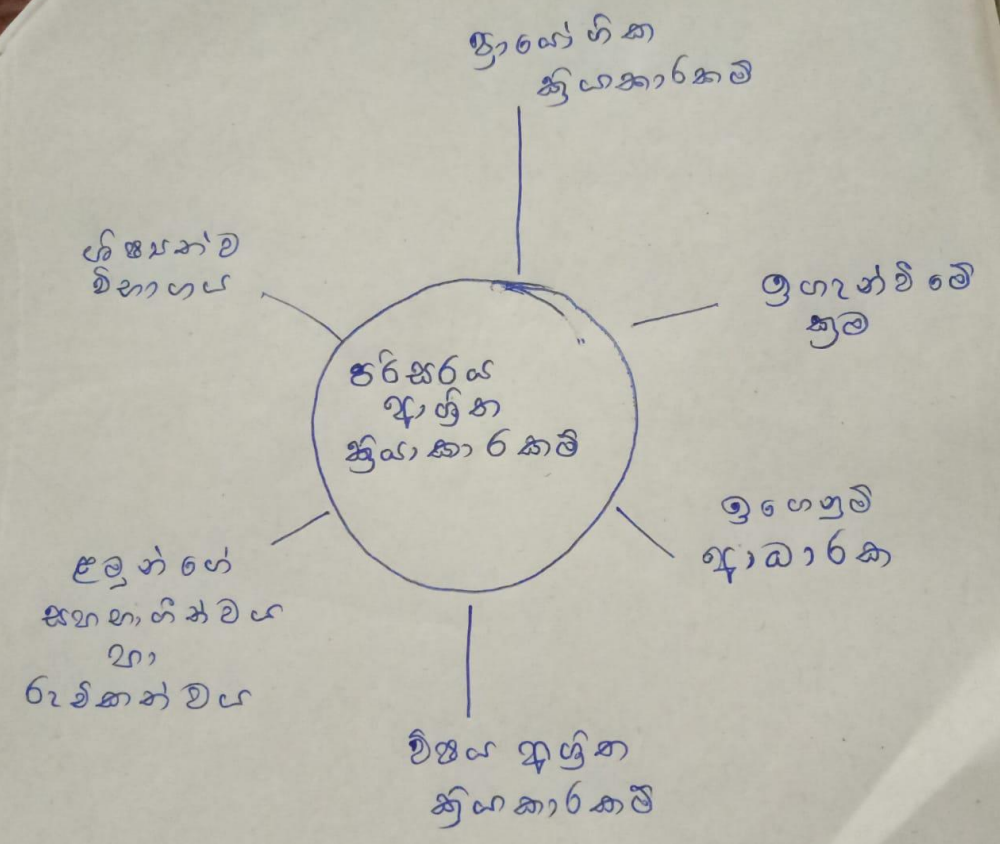
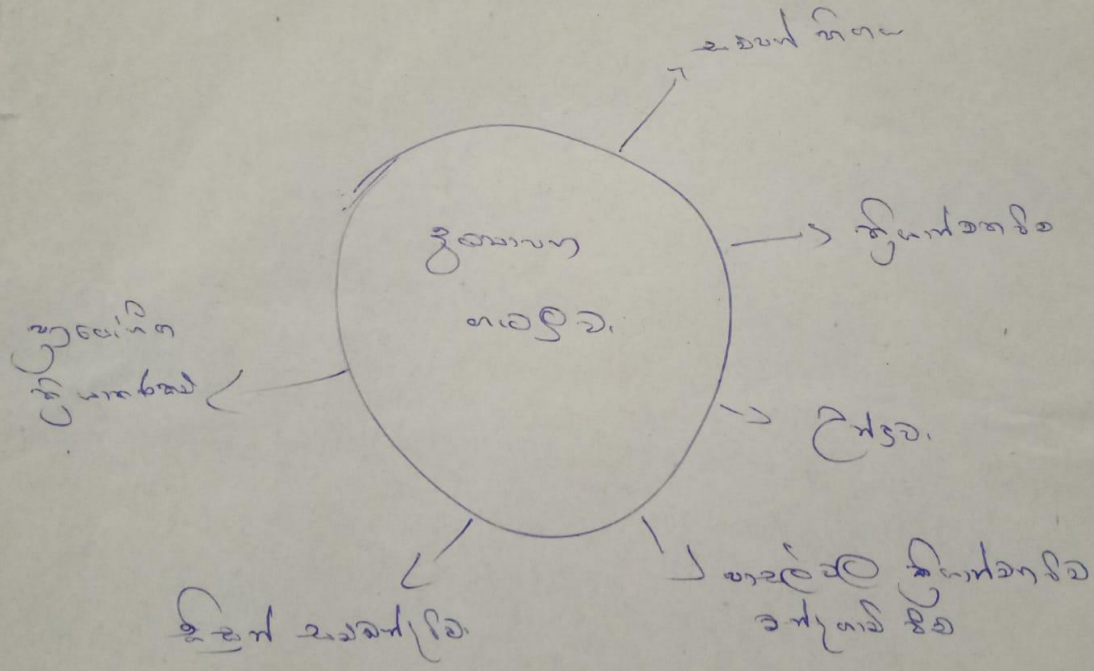
### Higher Order Learning

Explore		Support	
3. Apply	4. Analyze	5. Evaluate	6. Create

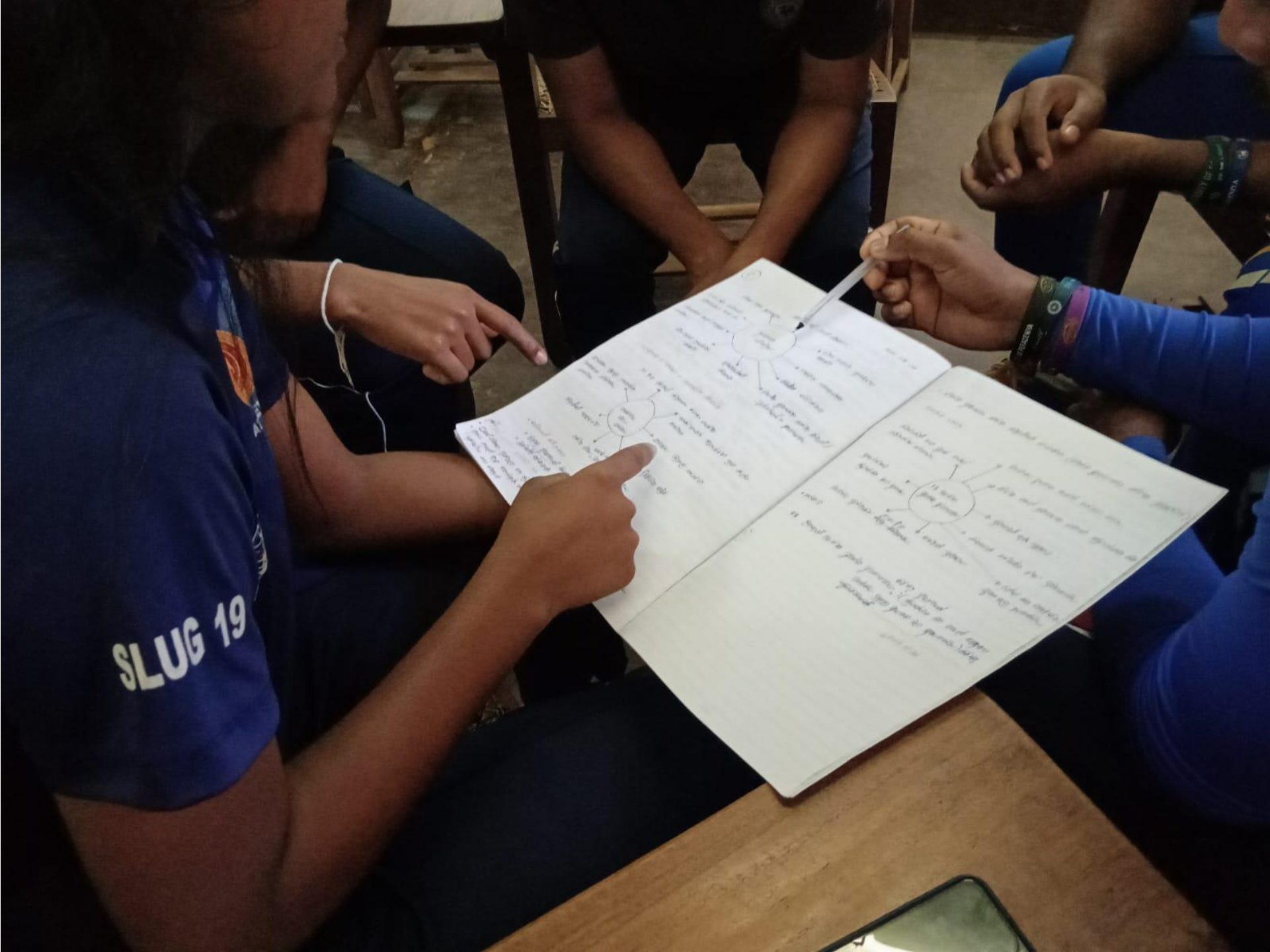
## Intended Learning Outcomes



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# Flipped learning model

- **Step 1: Define content scope, learning objectives, & instructional strategies**
- **Step 2: Students gain familiarity with new material before class**
- **Step 3: Activities that motivate students to prepare before class**
- **Step 4: In-class activities that provide students opportunities to deepen understanding**
- **Step 5: Post-class activities that extend student learning**

# Example

- [DOCo81722-08172022094900.pdf](#)
- ගෝලීයකරණය යන්න ඔබේ වචනයෙන් නිර්වචනය කරන්න.
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# Practicing 4cs

- 4<sup>th</sup> year dissertation guidance **Problem based learning (PBL)**

Think about a problem in education (individual)



Any solutions to the problem? (pair or group discussion)



How could I do a research to understand or to identify any solutions?

# Practicing 4cs

- 4<sup>th</sup> year dissertation guidance **Flipped classroom**

Upload a reading material with simple questions



Start the discussion based on the student responses



Reach towards the ILO through the discussion

Thank you!