


**+TOTEMK** TOTEMK Training of Trainers for Teacher Education and Management in Kenya



# Workshop 2

# Learning in 4Cs

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## WORKSHOP 2: LEARNING in 4C

STRUCTURE OF THE SESSION:

- Introduction to Learning in 4Cs (2 videos) and Q&A
- Group hands-on working in breakout rooms and planning of a course in accordance with 4Cs (plans to PADLET)
- Break
- Presentations of course plans
- Wrap-up, Q&A

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# Learning in 4Cs

Videos:

## GRADE 4 CBC LESSONS

[https://www.youtube.com/watch?v=XKH\\_3SH8PTM&ab\\_channel=KenyaCitizenTV](https://www.youtube.com/watch?v=XKH_3SH8PTM&ab_channel=KenyaCitizenTV)

## USE OF SIX THINKING HATS METHOD

[https://www.youtube.com/watch?v=Zt0BymHNj30&ab\\_channel=ThinkingSchoolsInternational](https://www.youtube.com/watch?v=Zt0BymHNj30&ab_channel=ThinkingSchoolsInternational)

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# SIX THINKING HATS TECHNIQUE

BY EDWARD DE BONO

Tool for creative thinking, innovation, critical thinking and communication

## Taking roles (debate)

White hat: neutral/objective point of view  
Yellow hat: brings positive aspects of the idea/issue







Black hat: brings negative opinions, problems and challenges

Red hat: brings own opinion based on own emotion, intuition and judgement

Green hat: brings imaginative and creative ideas and new options

Blue hat: Brings discipline, structure and order: makes a statement of the progress

You and your team members can learn how to separate thinking into six clear functions and roles. Each thinking role is identified with a colored symbolic "thinking hat." By mentally wearing and switching "hats," you can easily focus or redirect thoughts, the conversation, or the meeting.

	The White Hat calls for information known or needed. "The facts, just the facts."
	The Yellow Hat symbolizes brightness and optimism. Under this hat you explore the positives and probe for value and benefit.
	Risks, difficulties, Problems – The risk management Hat, probably the most powerful Hat; a problem however if overused; spot difficulties where things might go wrong, why something may not work, inherently an action hat with the intent to point out issues of risk with intent to overcome them.
	The Red Hat signifies feelings, hunches and intuition. When using this hat you can express emotions and feelings and share fears, likes, dislikes, loves, and hates.
	The Green Hat focuses on creativity; the possibilities, alternatives, and new ideas. It's an opportunity to express new concepts and new perceptions.
	The Blue Hat is used to manage the thinking process. It's the control mechanism that ensures the Six Thinking Hats® guidelines are observed.

See more <https://www.debonogroup.com/services/core-programs/six-thinking-hats/>  
<https://think2make.ch/en/6-thinking-hats/>

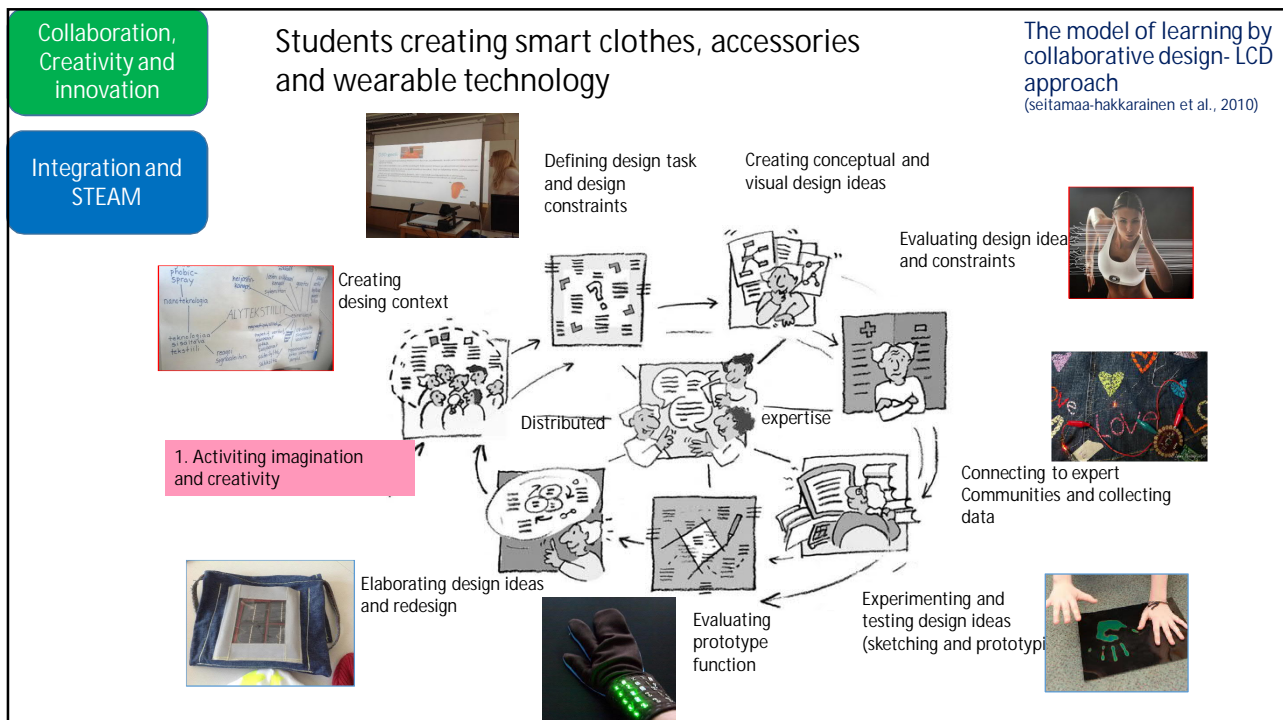
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## Stem, steam, stream

- STEM - science, technology, engineering, and mathematics
- STEAM - as STEM, but added with art and aesthetic component
- STREAM - again an application and approach to interdisciplinary education. "R" in between stands for Robotics and coding

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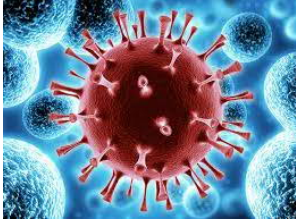




## Example: Effects of current covid-19 situation

(Okhee & Campbell, 2020)

Research-based learning  
Project-based learning



<https://www.cslbehring.fi/lehdistotiedotteet/2020/covid-19-update>

- What Science and STEM Teachers Can Learn from COVID-19 ?
- Engaging K-12 students in complex societal problems like the pandemic
- Instructional framework that emerged out of the real-time responses of STEM professionals to explain the pandemic and find solutions.
- As a result the project made STEM subjects fascinating commented by students

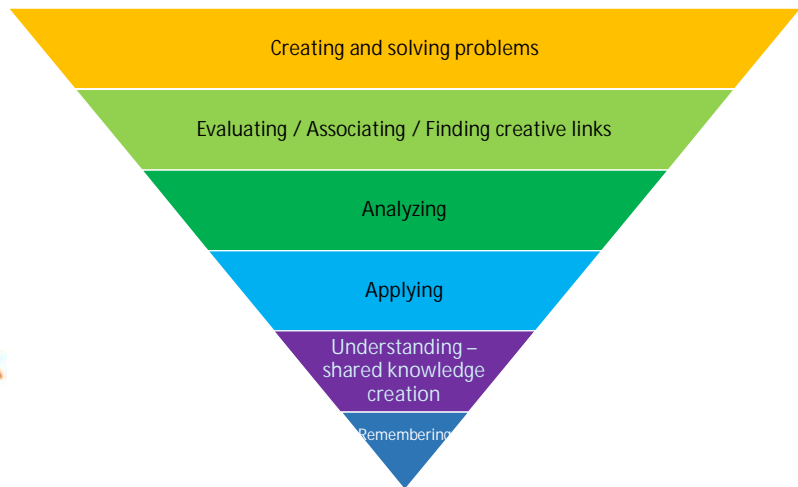
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## Learning in 4Cs



Bloom's taxonomy



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## How to boost learning skills 4C

### Hands-on-working: Planning/Developing of a Course by 4Cs

- Breakout rooms: the same groups as in the morning session
- Plan/develop jointly a course by focusing on 4C learning skills
- Collaborative planning
- Write a draft on Padlet
- Target group: HE student
- Use of Conversational Framework

#### PADLET:

[Workshops 1 and 2 \(TOTEMK\) \(padlet.com\)](#)

#### Workshop 2 Template: Planning/Developing of the Course by 4Cs

- Target group:
- Discipline:
- Learning outcomes:
- Content:
- Classroom/teaching arrangement:
- Teaching/learning method(s):

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## planning of own teaching (for distance period)

#### STRUCTURE OF THE SESSION:

- Instructions for distance period
- Breakout room activity – planning of own teaching
- Break
- Instruction for Reflective Journal
- Practical guidance
- Wrap-up, Q&A

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## How to get students/pupils into the center in practice

- Be patient – it may be long process – learning by doing
- Both teachers and students need to learn the process – learning together
- Keep asking questions
  - even though you know the answer
  - Ask yourself: why this particular task is important
- If student asks a question
  - “great question”, let’s solve that together
  - Ask students to find information (Internet, interviewing parent/locals, etc.)
  - Personal learning outcomes
- Use time on your desk – well planned content gives you flexibility during the lesson
- Teaching is creative activity – sometimes Improvisation
- Keep short informative talks, no long lectures – give time for Q&A + discussion by activating methods
- Use varied ways to give instructions – individual learning styles

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Trust on students - learner is in the centre

- Encourage students to find solutions
- Learn together with students
  - Give your students possibility to teach or guide other students
- Use group/team work (co-creation, co-learning)
  - - Embower students to use their talents
  - – e.g. The Six Thinking Hats method and technique
- Find real-life connections (listen your students)
- Learning by doing / learning by making
- Give time for creativity
- Encourage students to produce more than one idea/solution/way of working - ideation
- Create tasks, which do not have only one answer/ready formula/ - e.g. give materials/tools/theme, not ready ideas to follow or item they should produce

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## Wrap-up

Which 4C learning skill you find the most challenging to guide? (Zoom Polling)

Write three words what particularly struck you during the training? (Mentimeter)