Nurturing communities of inquiry

Technology Enhanced Learning Innovation (TELi) Department

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Who are we?

Angel Suarez
  • PhD candidate

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  • PhD, Assistant Professor

• Open Universiteit
  • Heerlen, Limburg
  • Welten Institute
  • TELi department (30 research)
What are we doing?

Because we **ALL** have a problem

- Involving students in deep, meaningful learning
- Critical thinking skills, collaboration, creativity…
- Inquiry based learning (IBL)
- IBL is complex
  - Scaffolding & structure
- Questions around
  - Distribute responsibilities
  - Create expectations
  - Interaction pattern
Why we are here at ISE? (1/2)

• 1) To do research
  • Inquiry-based learning
  • Support group work with technology

• 2) To help teachers in their job
  • Strategies & processes
  • You can really change education
Why we are here at ISE? (2/2)

• 3) To help students to learn better
  • More self-directed (groups of) students
    • Facilitators
  • Acquire inquiry skills
  • Realize the meaning of the inquiry process

The process is the product
How are we going to do it?

DojoIBL

Provides resources, tools and structure to support IBL
DojoIBL: Student visualization (2/4)
DojoIBL: Student visualization (2/4)

Colony on Mars » Question
  < Back to the list of phases

Question

1) Previous knowledge
2) Context wonder moments
3) What do you need to know?
4) Define concepts
5) Need to know
6) Reflection time

Chat

welten-apple about an hour ago
Hi, how are you?

welten-apple about an hour ago
I think I will start with activity one in the orientation phase 3

Send
DojoIBL: Example of discussion (3/4)

Colony on Mars » Orientation » 2) What do you need to know?

2) What do you need to know?

Explain what do you still need to know about the topic.

Angel: I think we still need to know how people is going to have water up there.
Reply - 3 minutes ago

Martin: That trip will be only one way. We still need to know why these people want to leave the earth forever...
Reply - 2 minutes ago

Angel: Yes, I can not even think about it :S
Reply - less than a minute ago
DojoIBL: Seamless interactions (4/4)
How are we going to do it? (2/5)

• Experiment
  • Methodology: Inquiry based learning

• Technology: DojoIBL
  • iPads
  • Computers
  • Mobile phones

• Research design: Roles vs no roles
  • Control (IBL effective)
  • Experimental

• Participants: As much as possible 😊
How are we going to do it? (3/5)

• Research questions

1. What is the (quality of) engagement, collaboration, motivation and level of understanding?

2. What is the way in which they understand the process? (interdependence of the tasks and roles; meaning of the tasks)?

3. How do the students distribute work? Planning?
Discussion points (1/2)

• What kind of products do you normally ask of the students? Essays? Presentations?

• How do you currently help students focus on the learning processes (e.g. how to collaborate)?

• How do students normally distribute the tasks? Are there any naturally emerging roles?
Discussion points (2/2)

• What do your moments of reflection look like currently? What do you focus on (e.g. collaboration?)

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• How much time could be assigned for this and when?
Take-home message

• We are passionate about your beautiful job, and we really want to help you.

• We can change things. We can make education more engaging for the children.

• Supporting the things you think are important

“Typical MYP assessment tasks include open-ended, problem-solving activities and investigations, organized debates, tests and examinations, hands-on experimentation, analysis and reflection. MYP assessment is carried out by teachers, according to the criteria defined by the IB”

“IB learners strive to become inquirers, knowledgeable, thinkers, communicators, principled, open-minded, caring, risk-takers, balanced, and reflective”
Contact

Thank you very much for your attention

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