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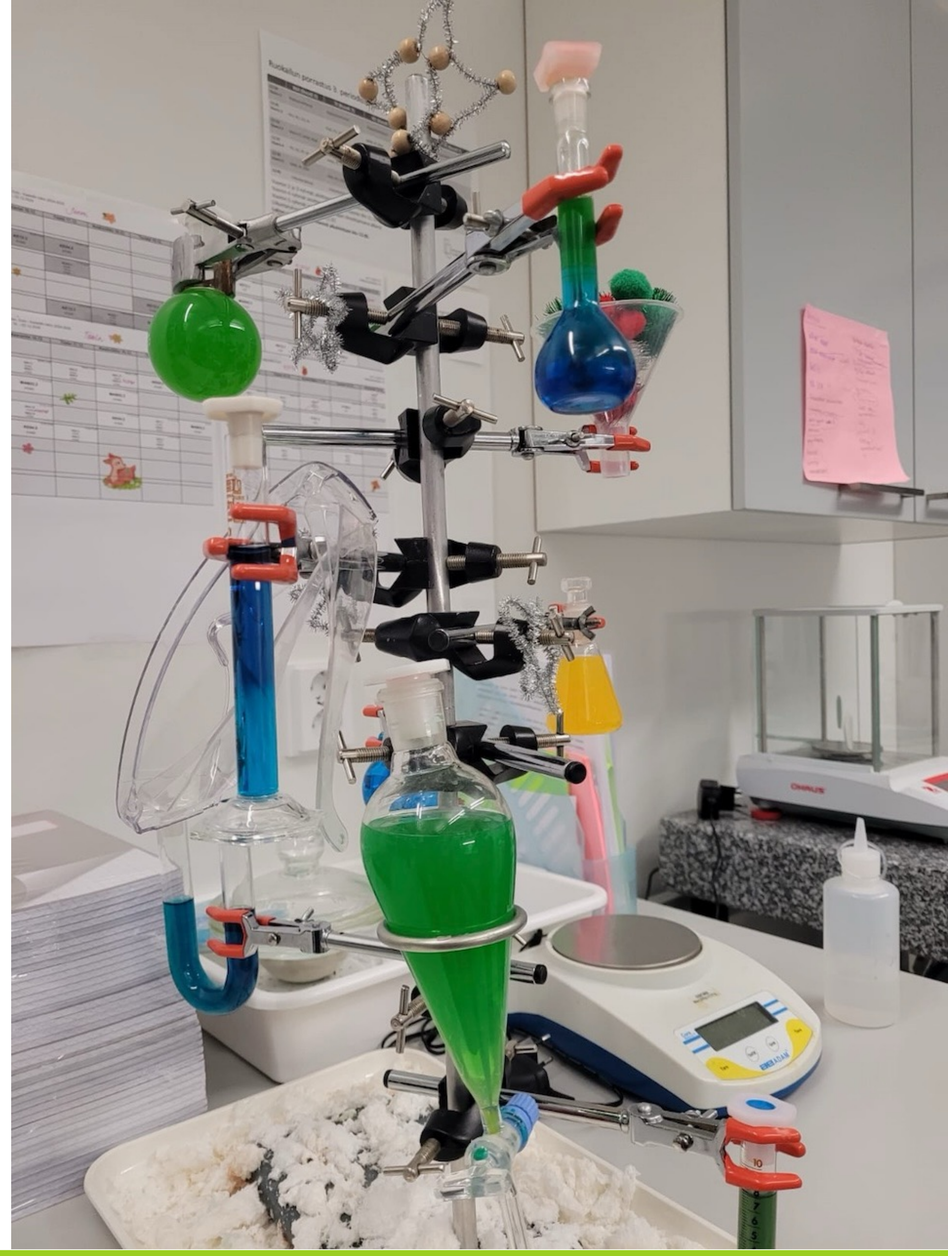
Modern pedagogical practices

Why modern pedagogy?

- Focus on:
  - Critical thinking
  - Collaboration
  - Real-world problem solving
- Shift from *teaching* -> *learning*



Benefits for students

- Deeper understanding
- Ownership of learning
- Improved critical thinking
- Engagement & motivation

Inquiry-based learning

What is inquiry-based learning?

- Learning starts with questions
- Students
  - investigate
  - explore
  - build understanding
- Teachers acts as facilitator, not lecturer

Inquiry in action

- Traditional: teacher explains -> students repeat
- Inquiry-based: question -> investigation -> discussion -> conclusions
- Example: “Why do seasons change?” instead of “Here is how seasons work.”

Types of inquiry

- Structured inquiry – teacher provides question + method
- Guided inquiry – teacher provides question
- Open inquiry – students generate questions

Phenomenon-based learning

What is phenomenon-based learning?

- Learning organized around real-world phenomena
- Combines multiple subjects
- Focus on holistic understanding
- Example phenomena: plastic waste, recycling, climate change, sustainable development, olympic games, life in forest, gravity, planets, energy, human body, French revolution, Europe, impressionism, equality, democracy, money and consumption, social media, designing clothes, etc. etc.

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The goal of phenomenon-based learning is for students to explore various real-life phenomena from different perspectives.

Phenomenon-based learning as implemented in Finland aims to add new multidisciplinary study units for all students at different levels of education.

Such multidisciplinary learning modules promote establishing connections across a range of subjects and develop a more holistic understanding of the world around us.

Phenomenon-based learning in practice

Students:

- Ask questions about a phenomenon
- Explore from different subject perspectives
- Work collaboratively
- Create solutions or presentations

Teacher:

- Guides process
- Supports connections between subject

Challenges and tips

Challenges

- Time constraints
- Curriculum alignment
- Student readiness

Tips

- Start small
- Use guided inquiry first
- Collaborate with colleagues
- Focus on process, not perfection
- *Let curiosity lead the learning*

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