



Experiential Learning

2024 Virtual Teaching Hackathon

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Problem Selection and Approach



Key Problem

- Tackling the struggle to make content more engaging and relevant to the students' world could be accomplished through projects or meaningful activities.

Approach

- Structure lessons to incorporate student engagement to show relevance to the students' lives.
- Compose a list of resources previously used in classrooms as examples to share.

Strategies



Strategy Examples and Resources

- Project-Based Learning (PBL):
 - Description: Students work on projects that require applying knowledge to real-world problems.
 - Example: Building a community garden to learn about biology, sustainability, and teamwork.
- Internships and Apprenticeships:
 - Description: Hands-on work experiences in a professional setting.
 - Example: An internship at a local business where students can apply marketing strategies learned in class.

Strategy Examples and Resources

- Case Studies:
 - Description: In-depth analyses of real-life situations and challenges.
 - Example: Business students analyzing the rise and fall of a company to understand market dynamics and management strategies.
- Simulations and Role-Playing:
 - Description: Interactive scenarios that mimic real-life situations.
 - Example: Medical students using simulation software to diagnose and treat virtual patients.

Strategy Examples and Resources

- Service Learning:
 - Description: Combining community service with academic coursework.
 - Example: Organizing a campaign to promote recycling and sustainability in the local community while studying environmental science.
- Field Trips and Site Visits:
 - Description: Visits to relevant locations to observe and learn.
 - Example: Visiting a historical site to enhance understanding of historical events and contexts.

Strategy Examples and Resources

- Guest Speakers and Industry Experts:
 - Description: Inviting professionals to share their experiences and insights.
 - Example: A tech entrepreneur discussing the latest trends in technology and innovation.
- Workshops and Bootcamps:
 - Description: Intensive, short-term training sessions focused on specific skills.
 - Example: Coding bootcamps where participants learn programming languages and work on real projects.

Strategy Examples and Resources

- Online Courses and Webinars:
 - Description: Digital learning platforms offering courses from industry experts.
 - Example: Coursera or Udemy courses that provide practical knowledge and skills in various fields.
- Mentorship Programs:
 - Description: Pairing students with experienced mentors in their field of interest.
 - Example: A young scientist working with a professional researcher to gain insights into scientific inquiry and experimentation.

Implementation



Steps for Implementation

- Incorporate structured lessons that show relevance to students' lives.
- Compile and share resources on the AU Noyce website.
- Engage in projects and meaningful activities relevant to students' interests and curriculum.

Supporting Materials

- [Project-based Learning: IMSA Resources 6-12](#)
- [BBC Teach](#)
- [Concord Consortium](#)
- [Math Medic](#)
- [Case Study: Making Science Relevant](#)
- [Social Justice Math and Science Curricular Resources](#)
- [Edheads](#)
- [Study Jams](#)

Conclusion



Summary and Next Steps

- Collaborative efforts make content engaging and relevant.
- Use of diverse methods and resources enrich students' learning experiences.
- Encourage colleagues to adopt experiential learning practices.
- Continue to share and develop list of resources.