

Adaptive learning strategies: STEAM Learning Profiles (description)

Participants engage in a 3-hour workshop focusing on personalised learning in STEAM. The workshop includes role assignments, learning style evaluations, skill assessments, and the creation of personalised learning experiences.



By the end of this workshop, participants will have gained practical experience in evaluating learning styles and creating personalised learning experiences in the context of STEAM education. They will leave with a deeper understanding of the importance of tailored coaching techniques for effective learning outcomes.

Description of Activity:

Participants work in groups of two, each playing the roles of a coach and a learner. Coaches evaluate their "learner's" learning style, skills, and difficulties in comprehending a STEAM topic (such as the ones previously developed by the groups). Based on the results of this evaluation, coaches create a personalised learning experience that tailors teaching tactics to the learner's preferences and needs. This practice emphasises the significance of personalising coaching tactics for successful learning results.

Agenda:

1. Introduction and Overview (15 minutes)

- Briefly introduce the concept of personalised learning and its importance in STEAM education.

2. Role Assignment and Initial Discussion (15 minutes)

- Form pairs and assign roles: one as the "coach" and the other as the "learner."
- Discuss initial thoughts on learning styles and preferences.

3. Learning Style Evaluation (30 minutes)

- Coaches evaluate their "learner's" learning style using a provided digital questionnaire.
- Discuss the results and identify key areas of focus.

4. Skill and Difficulty Assessment (30 minutes)

- Coaches assess the skills and difficulties their "learner" has in comprehending a specific STEAM topic.
- Discuss the findings and how they can inform the personalised learning experience.

5. Personalized Learning Experience Creation (45 minutes)

- Coaches create a personalised learning plan tailored to their "learner's" needs and preferences.
- Implement the plan in a mini-coaching session.

6. Feedback and Adjustments (30 minutes)

- Learners provide feedback on the personalised learning experience.
- Coaches make adjustments to their plans based on the feedback.

7. Wrap-up and Reflection (15 minutes)

- Summarise key takeaways and open the floor for participants to share their experiences and insights.

Additional Notes:

- Facilitators should be prepared to guide participants through the evaluation and planning processes.
- Ensure that all participants understand the importance of tailored coaching techniques for effective learning outcomes.

STEAM Category:

- All

Image: www.pexels.com