



ArtIST

INTEGRATED INTERDISCIPLINARY EDUCATION MODULE ON ART,
ENTREPRENEURSHIP, INNOVATION AND SCIENCE



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612898-EPP-1-2019-1-FI-EPPKA3-PI-FORWARD

Artist Tool: Innovation Relay Challenge: Igniting Future-Forward Solutions

Artisttb23/ Innovation Relay Challenge: Igniting Future-Forward Solutions/ KTU

Title	Innovation Relay Challenge: Igniting Future-Forward Solutions
Purpose	The "Innovation Relay Challenge" has been developed as a dynamic platform to ignite collaborative problem-solving, foster innovation, and fuel entrepreneurial thinking among participants. This challenge is designed to bridge the gap between futuristic innovation problems and creative solutions.
Description	The "Innovation Relay Challenge" is a thrilling competition that propels participants into the heart of futuristic innovation problems. In this relay-style challenge, teams work together to develop innovative solutions. Then, as the clock ticks, they rotate clockwise to continue building upon the previous team's ideas.
STEM topics covered	Participants delve into advanced STEM topics as they tackle complex challenges requiring scientific and technical expertise to find cutting-edge solutions.
Arts topics	Creativity and artistic expression play a vital role in this challenge, as participants are encouraged to think beyond conventional boundaries and explore innovative approaches.
STEAM approach explained	The "Innovation Relay Challenge" epitomizes the STEAM approach by seamlessly integrating STEM and the arts. It demonstrates how this interdisciplinary fusion can catalyze groundbreaking innovations.
Setting	The challenge can be conducted in a dynamic and adaptable learning space, accommodating multiple teams as they rotate through the relay stations.
Time frame	The "Innovation Relay Challenge" typically can take 1,5 hours but can be extended to a full day, intensifying the immersive learning experience and allowing teams to explore multiple facets of innovation.
Group size	Ideal for medium to large-sized teams, encouraging diverse perspectives and collaborative problem-solving.
Schedule and activities	Step-by-Step Experience: • Challenge Introduction: Teams are briefed on the relay format and the futuristic innovation problems they will encounter. • Leg 1: STEM Exploration: Teams dive into the first challenge, which is rooted in advanced STEM concepts. They work together to analyze, innovate, and present their solutions. • Clockwise Rotation: Teams rotate clockwise to the next station, where they continue building upon the ideas of the previous team. • Leg 2: Arts and Creativity Fusion: The second leg challenges participants to infuse creativity and artistic expression into their problem-solving process. They explore unconventional approaches and develop innovative concepts. • Clockwise Rotation: Teams rotate to the next station, maintaining the relay-style flow. • Leg 3: Collaborative Problem-Solving: The third leg emphasizes teamwork and collaborative problem-solving. Teams tackle a complex challenge that requires interdisciplinary collaboration to find viable solutions. • Clockwise Rotation: Teams continue the relay, reinforcing the concept of building upon previous ideas.

	Leg 4: Presenting Innovations: The challenge concludes with teams presenting their innovative solutions to a panel of judges, emphasizing the visual representation of their ideas. Results and Artistic Visual Representation: Innovative Solution Boards: At the conclusion of each leg, teams create visually striking solution boards that showcase their innovative ideas. These boards blend scientific diagrams, artistic renderings, and written explanations to present a comprehensive view of their solutions. Innovation Gallery: As the relay progresses, the solution boards are displayed in an "Innovation Gallery." This visually captivating space serves as a source of inspiration for all participants, showcasing the diverse and creative approaches taken by each team. Collaborative Art Installation: Throughout the challenge, participants collaboratively work on an evolving art installation that visually represents the collective effort of all teams. This dynamic installation evolves as teams rotate through the relay, visually capturing the essence of interdisciplinary collaboration. Award-Winning Designs: At the conclusion of the challenge, teams receive awards not only for their innovative solutions but also for the artistic presentation of their ideas. Awards recognize creativity, scientific accuracy, and the visual impact of their work. Final reflection on creative process, collaboration and switching the perspective should be implemented. Main takeaways discussed.
Age group / level of study	
Preparation needed / pre-requirements	No specific prerequisites are necessary. Participants should arrive with a readiness to embrace futuristic challenges and collaborate creatively.
Instructions for students	Participants immerse themselves in the relay challenge, rotating through stations, embracing each team's ideas, and visually representing their solutions. Improvisation and creativity are key to success.
Instructions for facilitators	Facilitators guide teams through each leg of the relay, offering support and encouragement. They ensure that the challenge progresses smoothly, fostering collaboration, innovation, and artistic expression.
Lessons learned	-
Additional materials	The challenge requires access to advanced STEM resources, creative materials, and presentation equipment to facilitate the relay's diverse challenges.
Inspiration if any, sources	The "Innovation Relay Challenge" is inspired by the Relay games concept and ever-evolving landscape of technological innovation and the need for interdisciplinary solutions to futuristic problems.
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