



SDG

Classroom challenge



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Introduction

In a world facing unprecedented challenges—from climate change and resource depletion to social inequality and urbanization—the urgency for sustainable solutions has never been greater. The United Nations' Sustainable Development Goals (SDGs) provide a comprehensive framework for addressing these pressing issues, guiding us toward a more equitable and sustainable future.

This eBook presents the SDG Challenge, an innovative initiative designed to empower young minds aged 13-17 to engage with the SDGs in a practical and impactful way. Through this challenge, students will explore their local communities, identify pressing issues, and develop creative, sustainable solutions that can drive positive change.

Over the next few chapters, you will find a detailed guide to implementing the SDG Challenge in your educational setting. From an inspiring introduction lecture to step-by-step instructions for research, planning, and execution, this eBook provides all the resources educators need to facilitate an enriching experience for their students.

Our theme, “Sustainability Can Help You Conquer the Stars,” encapsulates the idea that local actions can lead to global impact. By harnessing their creativity and passion for sustainability, students can not only contribute to their neighborhoods but also develop valuable skills that will serve them in their future endeavors.

Join us in this exciting journey as we encourage the next generation to take action, think critically, and become proactive leaders in the quest for a sustainable world. Together, let's inspire young minds to reach for the stars and create a brighter future for all.

Sustainability can make you conquer stars

Overview

The SDG Challenge invites students aged 13-17 to engage with the Sustainable Development Goals (SDGs) in a hands-on project that encourages innovation, critical thinking, and community involvement. Over the course of three months, students will design and implement a sustainable solution that addresses a specific challenge in their neighborhood. Remember that everything can be done in a collaborative way with your students.



Challenge methodology

1. Introduction Lecture

- Duration: 1 hour
- Content:
 - Overview of the 17 Sustainable Development Goals.
 - Discuss the importance of sustainability and how it impacts communities.
 - Highlight examples of successful SDG projects globally and locally.
 - Introduce the challenge and its objectives.
- Format: Interactive presentation with visuals, videos, and discussion.

2. Team Formation

- Students will form teams of 4-5 members.
- Encourage diversity in skills and backgrounds to foster creativity.

3. Research and Idea Development (Weeks 1-4)

- Objective: Identify a local issue related to one or more SDGs that the team is passionate about.
- Activities:
 - Conduct community surveys or interviews to gather insights.
 - Research existing solutions and best practices.
 - Brainstorm and select a feasible project idea.
- Deliverable: A project proposal outlining the issue, proposed solution, and its alignment with the SDGs.

4. Project Planning and Design (Weeks 5-8)

- Objective: Develop a detailed action plan for the project.
- Activities:
 - Define goals and objectives for the project.
 - Create a timeline and assign roles and responsibilities within the team.
 - Identify resources needed (materials, partnerships, funding).
 - Plan for measuring success (metrics and evaluation methods).
- Deliverable: A comprehensive project plan.

5. Implementation (Weeks 9-12)

- Objective: Execute the project in the community.
- Activities:
 - Collaborate with local organizations, businesses, or community leaders as needed.
 - Promote the project through social media or community events.
 - Document the process through photos, videos, and written reflections.
- Deliverable: A completed project that addresses the identified issue.



6. Presentation and Reflection (End of Month 3)

- Objective: Showcase the project and reflect on the learning experience.
- Activities:
 - Prepare a presentation (5-10 minutes) for the class or a larger community event.
 - Share the project outcomes, challenges faced, and lessons learned.
 - Encourage peer feedback and discussion.
- Format: Presentations can be live or recorded, incorporating visuals.

Evaluation Criteria

- Impact: How well does the project address the identified issue?
- Creativity: Originality of the solution and approach.
- Feasibility: Practicality of implementation within the given timeframe.
- Teamwork: Collaboration and distribution of responsibilities.
- Presentation: Clarity and effectiveness of the final presentation.

Suggestions: Teacher, invite your students to integrate with the community.

- Invite teachers from different areas of knowledge to help students in building the project.
- Invite parents and family members to participate in the presentation of the projects.
- Engage the entire school community in developing these solutions.

Conclusion

The **SDG Challenge** aims to empower students to take action in their communities while deepening their understanding of sustainability. By working together, students can create meaningful change and contribute to a better future for all. Remember: sustainability can truly help you **conquer the stars!**

Do you think that would be it? Now, let's go to practice. After you complete the challenge. **Send us your students' presentations** and we will get them to think about galactic solutions in Nasa Space apps. contact us. **Nasaeducatech2024@gmail.com**



Invitation to Participate in the SDG Challenge

Dear Educators,

We are excited to invite you to **participate** in the SDG Challenge, an innovative initiative designed to engage students in exploring the Sustainable Development Goals (SDGs) through hands-on **learning** and **community** impact. This challenge **encourages** students to identify local issues and develop sustainable solutions over a three-month period.

To enhance this experience, we encourage teachers from all subject areas to join in and create thematic classes that align with the challenge. Whether you're teaching science, social studies, language arts, or mathematics, there are countless opportunities to integrate the SDGs into your curriculum.

Why **Participate**?

- Cross-Disciplinary Learning: **Collaborate** with colleagues from different fields to create a rich, interdisciplinary learning environment.
- **Empower** Students: Help students develop critical thinking, problem-solving, and teamwork skills while addressing real-world issues.
- Community **Engagement**: Inspire students to connect with their local communities and make a tangible impact.

How to Get **Involved**:

1. Review the Lesson Plans: Explore the provided lesson plans that align with each SDG. These plans offer ideas for **integrating** sustainability into your classroom activities.
2. Collaborate with Colleagues: Reach out to fellow educators to brainstorm how you can **incorporate** the SDGs into your lessons.
3. Share Your Ideas: We encourage you to share your thematic class plans and activities with the broader educational community.

Together, we can inspire our students to become informed, proactive leaders who are equipped to tackle the challenges of today and tomorrow.

We look forward to your participation in this exciting journey toward a more sustainable future!

nasaeducatech2024@gmail.com