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| ACTIVITY PLAN | | | | |
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| **Theme** | **Subtopic** | **Activity Title** |
| Global and Local Perspectives in Environmental Education | Environmental Policies and Regulations | Green Building Codes and Regulations |

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| Introduction part (or activity overview) |
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| **Introduction part (or activity overview)** | This activity aims to explore green building codes and regulations, understanding their significance in promoting sustainable construction practices that reduce environmental impact. Students will investigate how these regulations are applied locally and globally and assess their effectiveness in driving eco-friendly building innovations. |
| **SETTING** | **Location:** Classroom equipped with computers and internet access.  **Educational Context:** Collaborative group work (2-3 students per group) |

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| Materials Needed |
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| **Materials Needed** | Computers with internet access  Projector for presentations  Paper and colored pens for creating diagrams and charts |

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| **Learning Outcomes** | Identify and understand various green building codes and how they contribute to sustainability.  Analyze the impact of these building codes on local and global scales.  Develop a presentation to argue the benefits and potential drawbacks of specific green building regulations. |  |
| **Activity Contents** | **Theoretical Part (Duration: 45 minutes):**  Introduction to the concept of green building codes, which are standards and policies designed to minimize the environmental impact of building construction and operation. These regulations typically focus on several key areas:  Energy Efficiency: Mandating the use of energy-efficient appliances, systems, and building practices to reduce the energy consumption of buildings.  Water Efficiency: Implementing systems that reduce water usage and promote water recycling.  Material Sustainability: Encouraging the use of environmentally friendly materials that are durable, recyclable, and sustainably sourced.  Indoor Environmental Quality: Enhancing the health and comfort of building occupants by improving indoor air quality and incorporating natural light and views.  Site Selection and Development: Promoting responsible land-use practices that respect existing ecosystems and minimize impact on them.  To provide a foundational understanding, the following video resources can be viewed:  https://www.youtube.com/watch?v=Q4Vlj2zoxGM- This video explains the basics of green building codes and their importance in sustainable development.  Task 1 (Duration: 45 minutes): Research and Analysis  Step 1: Each group selects a country and researches its specific green building regulations. Focus on areas such as energy efficiency requirements, use of sustainable materials, and innovations in green building.  Step 2: Each group prepares a comprehensive report that discusses:  The key components of the green building codes in the selected country.  How these regulations have influenced building practices within that country.  Examples of successful projects that comply with these codes.  Step 3: Groups present their findings to the class, highlighting the unique aspects of their selected country's approach to green building.  Task 2 (Duration: 30 minutes): Debate on Effectiveness  Each group participates in a structured debate on the effectiveness of green building codes. The class will be divided into two, with one side arguing for the effectiveness of these regulations in promoting sustainable building practices, while the other side argues against, citing potential limitations or drawbacks. |  |
| **Assessments** | Research depth and accuracy  Clarity and persuasiveness of the presentation  Engagement in the debate, including use of evidence and counterarguments |  |
| **Key Competences** | Communication competence  Cognitive competence  Research and digital skills  Critical thinking and analytical skills |  |
| **Connections with Eco STEAM** | Eco: Understanding the ecological impacts of building practices.  Science: Application of scientific principles in energy efficiency and sustainable materials.  Technology: Utilizing digital tools for research and presentation.  Engineering: Analyzing the engineering challenges and solutions in green building.  Arts: Creatively presenting information and arguments.  Math: Using data to analyze the effectiveness of building codes. |  |
| **References** | https://thetradecouncil.dk/en/en-sba |  |
| **Notes** | The activity may span 2-3 sessions to allow adequate time for research, discussion, and creative output. |  |

**Evaluation Table for Green Building Codes and Regulations Activity**

| **Evaluation Criteria** | **Points Available** | **Comments** |
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| **1. Research Depth** | 20 | Evaluate the thoroughness and depth of the research conducted on green building codes. |
| **2. Accuracy of Information** | 15 | Assess the accuracy and relevance of the information presented in the reports. |
| **3. Creativity** | 10 | Rate the creativity in the presentation and report layout, including the use of visual aids and examples. |
| **4. Clarity of Presentation** | 15 | Judge how clearly the group presented their findings. Clarity in speech, structure, and slide organization. |
| **5. Argumentation Skills** | 20 | Evaluate the effectiveness of the arguments during the debate, including the use of evidence and logic. |
| **6. Team Collaboration** | 10 | Assess the level of teamwork and collaboration evident in the group's preparation and presentation. |
| **7. Engagement** | 10 | Rate the group's ability to engage the audience during their presentation and debate. |

**Total Points:** 100