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SUSTAINABLE CLASSROOM SPECIALIST SCS CERTIFICATE

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ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE
20

Materials and Resources

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SUSTAINABLE CLASSROOM SPECIALIST SCS CERTIFICATE

A green classroom is a holistic approach to education that prioritizes sustainability, health, and environmental stewardship. It involves careful selection, usage, and management of materials and resources. Material selection plays a crucial role in the sustainability of educational environments, as it impacts not only the ecological footprint but also the health and well-being of students and educators.

Learning Objectives

- Green school buildings are dynamic learning environments.
- Operations and Maintenance for Whole School Sustainability
- Meaningful, purposeful, and engaging learning
- Sustainable Spaces and Smart Transportation
- Energy Efficiency - Lighting
- Energy Efficiency - Plug Loads & HVAC Systems
- Water Efficiency and Quality
- Indoor Environment: Air Quality and Acoustics
- Smart Cleaning & Integrative Pest Management
- Materials and Resources
- Emerging Design and Technology
- Summary and Resources
- SCS Quiz: Test Your Knowledge!

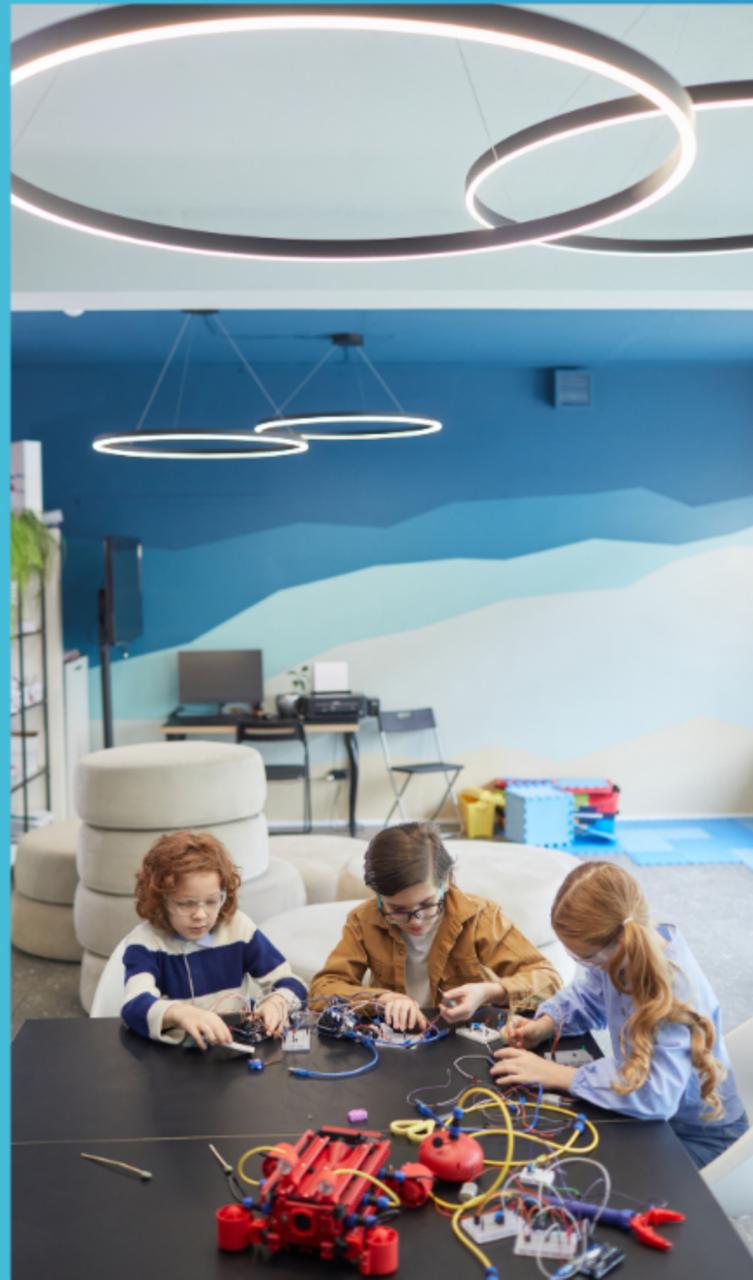
INTRODUCTION

- Prioritizes sustainability, health, and environmental stewardship.
- Crucial for material selection to ensure educational environments are sustainable.
- Conventional classroom materials can emit VOCs, posing health risks.
- Low-VOC or VOC-free materials improve indoor air quality.
- Sustainable practices are integrated into everyday activities.
- Digital resources and multi-functional materials minimize paper waste.
- Waste management strategies ensure responsible disposal of materials.
- Advocacy for sustainable materials through procurement policies and collaboration with sustainability-focused suppliers.
- Strategies like bulk purchasing and transitioning from disposable to reusable items foster sustainability.
- Creative use of discarded items extends material life and reduces waste.
- Clear recycling programs instruct students on separating recyclable materials from general waste.



STRUCTURAL MATERIALS

- Concrete and steel are commonly used in school construction due to their strength and longevity.
- Wood and sustainable materials are recognized for their aesthetic appeal and sustainability.
- Cross-laminated timber (CLT) provides architects with a versatile and environmentally friendly building option.



EDUCATIONAL MATERIALS

- Textbooks and print resources are essential for providing diverse learning opportunities and facilitating student engagement.
- Digital and technological resources, such as e-books, educational apps, and online databases, provide immediate access to a wealth of information.
- Tools like interactive whiteboards and projectors enhance instructional delivery.



TECHNOLOGICAL RESOURCES

- Hardware includes computers, tablets, interactive projectors, and virtual reality headsets.
- Educational software encompasses a wide range of applications designed to enhance learning.
- Learning Management Systems (LMS) like Google Classroom or Moodle enable teachers to organize course materials, facilitate communication, and assess student progress efficiently.



HUMAN RESOURCES

- Teachers and instructional staff are the primary conduits of knowledge and skills.
- Support staff play a vital role in the overall functioning of a school.
- Collaboration between teachers and support staff is akin to an orchestra, enhancing the educational experience for students.



THANK YOU

