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**BEYOND SMART CITIES**

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# SUSTAINABLE CLASSROOM SPECIALIST SCS CERTIFICATE

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ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C), GSAS CGP, GCP, ISO 14001

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# BEYOND

SMART CITIES

MODULE  
**13**

## Meaningful, Purposeful, and Engaging Learning

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Meaningful, purposeful, and engaging learning are essential components of effective education. Meaningful learning connects new knowledge to existing understanding, making it easier for students to remember and apply the information later.

# 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

## Meaningful Learning

- Connects new knowledge to existing understanding.
- Helps students see the relevance of what they are studying.
- Likened to building a house with a strong foundation (existing knowledge).

## Purposeful Learning

- Refers to learning with a clear goal or purpose.
- Encourages critical thinking about learning objectives and skills.
- Likened to setting a destination on a map before embarking on a journey.

## Engaging Learning

- Captures students' attention and keeps them actively involved in the learning process.
- Involves hands-on activities, collaboration, and creativity.
- Likened to watching a thrilling movie.
- More likely to absorb and retain information when engaged.

# INNOVATIVE TEACHING IN GREEN SCHOOLS: MEANINGFUL, PURPOSEFUL, AND ENGAGED LEARNING



- Green schools integrate environmental stewardship with comprehensive educational practices.
- The chapter explores the principles of meaningful, purposeful, and engaged learning within green school networks.

# MEANINGFUL LEARNING

- Connects new information with existing knowledge base, fostering deep understanding and retention.
- Examples include hands-on fieldwork in a science class, allowing students to appreciate ecological interdependence.



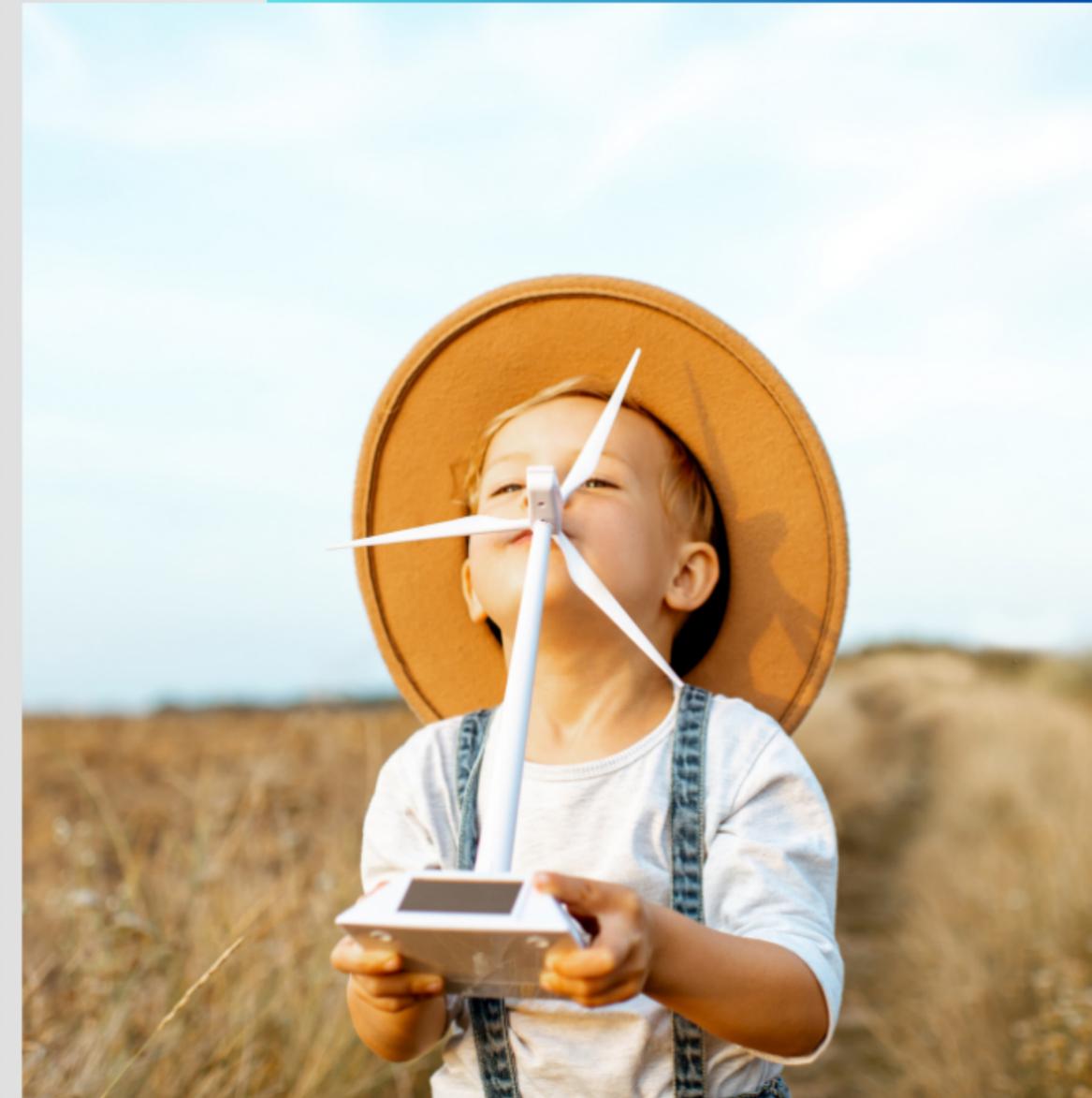
# PURPOSEFUL LEARNING



- Driven by students' intrinsic motivations and aligns educational objectives with real-world applications.
- Examples include project-based learning initiatives in a green school, such as designing a sustainable garden.

# ENGAGED LEARNING

- Refers to the active participation of students in the learning process, fostering critical thinking, creativity, and problem-solving skills.
- Examples include participating in town hall meetings to discuss local environmental policies and fostering a sense of agency and responsibility.



# INNOVATIVE TEACHING IN GREEN SCHOOLS

Strategies include interdisciplinary curriculum, Project-Based Learning (PBL), outdoor education, and technology integration.



# GREEN SCHOOL NETWORKS AND RECOGNITION PROGRAMS

- Green school networks facilitate the exchange of ideas, resources, and best practices among educators committed to sustainability.
- Recognition programs like the U.S. Green Building Council's Green Schools program can enhance a school's reputation and attract community support.



# RESOURCES FOR GREEN SCHOOLS

- Curriculum Guides: Organizations like the National Wildlife Federation offer resources aligning environmental education with academic standards.
- Grants and Funding Opportunities: Foundations and government programs provide financial support for sustainability initiatives in schools.
- Professional Development: Workshops, webinars, and conferences focused on green education equip educators with the skills and knowledge necessary to implement effective teaching practices.
- Community Partnerships: Collaborating with local organizations, businesses, and environmental groups can enhance educational opportunities and provide real-world context for student learning.



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# THANK YOU

