



SCHOOLS
GO GREEN



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GO GREEN

Project number: 2020-1-DE03-KA201-077258

Urban Sustainable Development

Danmar Computers

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LESSON PLANS FOR TEACHERS



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Project Information

PROJECT: Schools Go Green

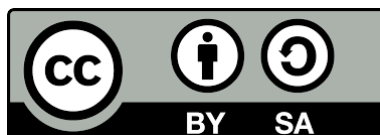
PROJECT TITLE: DEVELOPING A WHOLE-SCHOOL APPROACH TO PROMOTE SOCIAL CHANGE AND SUSTAINABLE DEVELOPMENT AS A RESPONSE TO ENVIRONMENTAL CHALLENGES

ACRONYM: SCHOOLS GO GREEN

PROJECT WEBSITE: <https://schoolsgogreen.eu/>

PROJECT NO.: 2020-1-DE03-KA201-077258

PROJECT COORDINATOR: LEIBNIZ UNIVERSITÄT HANNOVER, GERMANY



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Module: Urban Sustainable Development

Topic 1: Introduction

Lesson Plan 1 – Introduction to Urban Sustainable Development

Duration: 60 minutes

Short Description of the Lesson	Introduction to the main topic of the module: Urban Sustainable Development
Learning Goals	<ul style="list-style-type: none"> - Increase awareness of the concept of sustainable urban development
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • PPT Presentation, Projector
Main Tasks	<ol style="list-style-type: none"> 1. Task 1: Introduction to sustainable development – Start the lesson with a video: https://www.youtube.com/watch?v=h1sU_gOxjf4&t (10 minutes) 2. Discussion: <ul style="list-style-type: none"> • Has everyone understood what sustainable development is? What is urban sustainable development for you? (10 minutes) 3. PPT Presentation (Urban Sustainable Development) (20 minutes) 4. Discussion: <ul style="list-style-type: none"> • What are the advantages of urban sustainable development? (10 minutes) • Are sustainable solutions being implemented in your city? (10 minutes) 5. Homework: <ul style="list-style-type: none"> • Does your city lack sustainable solutions? Think about how you could contribute to the sustainability of your city. Write your ideas on a piece of paper.

Module: Urban Sustainable Development

Topic 2: Sustainable City

Lesson Plan 2 – How to create sustainable cities?

Duration: 60 minutes

Short Description of the Lesson	An introduction to the concept of creating sustainable cities.
Learning Goals	<ul style="list-style-type: none"> - Promoting a low-carbon approach at the local level - The ability to co-create a safe and sustainable community - Increase group work skills - Increasing creativity
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • Projector, paper, pencils, sticky notes
Main Tasks	<ol style="list-style-type: none"> 1. Task 1: Introduction to sustainable cities – Start the lesson with a video: https://www.youtube.com/watch?v=WCKz8ykyI2E (20 minutes) 2. Discussion: <ul style="list-style-type: none"> • Has everyone understood what sustainable city is? • What solutions in your city are leading it toward sustainability? (10 minutes) 3. Activity: Create a mind map. On one side write down the current solutions that are implemented in your city, and on the other side write down ideas that could help the community create a sustainable city.

Module: Urban Sustainable Development

Topic 3: Public transportation

Lesson Plan 3 – Public transportation - is it worth it?

Duration: 45 minutes

Short Description of the Lesson	Introduction to the term public transportation. Outlining the advantages and benefits.
Learning Goals	<ul style="list-style-type: none"> - Increase awareness of the benefits and advantages of public transportation.
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • Projector, paper, pencils
Main Tasks	<p>1. Discussion: What is public transportation? After discussion, the teacher gives the official definition of public transportation. (10 minutes)</p> <p>2. Video: https://www.youtube.com/watch?v=MYL2edS5sVY (10 minutes)</p> <p>3. What benefits do the proposed solutions shown in the video have? - Discussion</p> <p>4. What means of transportation do you use? Which ones are environmentally friendly?</p>

Module: Urban Sustainable Development

Topic 4: Green zones

Lesson Plan 4 – Green zones

Duration: 35 minutes

Short Description of the Lesson	Introduction to the term green zones.
Learning Goals	<ul style="list-style-type: none"> - Increase awareness of green zones and their benefits
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • Video, discussion, brainstorming
Main Tasks	<p>1. Start the lesson with a video: https://www.youtube.com/watch?v=WMUZeqM-Olg (5 minutes)</p> <p>2. Discussion: To what extent do green zones contribute to well-being? (15 minutes)</p> <p>3. Brainstorming: How can I contribute to increasing green space in my community/city? (15 minutes)</p>

Module: Urban Sustainable Development

Topic 5: Green architecture

Lesson Plan 5 – Implement green architecture

Duration: 45 minutes

Short Description of the Lesson	Introduction to the term of Green architecture
Learning Goals	<ul style="list-style-type: none"> - Increase awareness of the green architecture
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • Video, discussion, photos and descriptions of the buildings.
Main Tasks	<p>1. Start the lesson with a video: https://www.youtube.com/watch?v=wmoy27EZ8y0 (15 minutes)</p> <p>2. Group activity: Divide the class into groups and give each group one building that they have to learn about and present how it is sustainable. Examples of buildings:</p> <ul style="list-style-type: none"> • Beitou Public Library, Taipei, Taiwan • California Academy of Sciences, San Francisco, USA • World Trade Center, Manama, Bahrain • Pixel Building, Melbourne, Australia • Museum of Tomorrow, Rio de Janeiro, Brazil • Turning Torso, Malmö, Sweden • Parkroyal Collection, Singapur, Singapur • Shanghai Tower, Shanghai, China • Reforma Tower, Mexico City, Mexico <p>(35 minutes)</p>

Module: Urban Sustainable Development

Topic 6: Smart Cities

Lesson Plan 6 – What are Smart Cities and are they sustainable?

Duration: 45 minutes

Short Description of the Lesson	Introduction to the term of Smart Cities
Learning Goals	<ul style="list-style-type: none"> - Increasing awareness of Smart Cities.
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 10-12 years old
Educational Approach	Presentations, videos and Discussions
Facility/ Equipment	Classroom, Internet access, Projector
Tools/ Materials	<ul style="list-style-type: none"> • Video, discussion
Main Tasks	<p>1. Start the lesson with a video: https://www.youtube.com/watch?v=VRRPy-yEKRm (10 minutes)</p> <p>2. Group Discussion a) Have all understood the video? (10 Minutes) b) What does smart city mean to you? (15 Minutes)</p> <p>3. Homework: What solutions could you apply in your city? Create your own Smart City.</p>