



SCHOOLS
GO GREEN



Co-funded by the
Erasmus+ Programme
of the European Union



SCHOOLS
GO GREEN

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

Urban Sustainable Development

Danmar Computers

20.04.2022

LESSON PLANS
FOR TEACHERS



This project has been funded with support from the European Commission. This communication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

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



This document by SchoolsGoGreen
is licensed under CC BY-SA 4.0.
To view a copy of this license, visit
<https://creativecommons.org/licenses/by-sa/4.0>

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	- 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 6-9 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"> Task 1: Introduction to sustainable development – Start the lesson with a video: https://www.youtube.com/watch?v=7V8oF14GYMY (10 minutes) Discussion: <ul style="list-style-type: none"> Has everyone understood what sustainable development is? What is urban sustainable development for you? (10 minutes) PPT Presentation (Urban Sustainable Development) (20 minutes) 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) Homework: <ul style="list-style-type: none"> Does your city lack sustainable solutions? Draw what your city will look like in a few years

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 6-9 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 etc.
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=fcDDUSUbg9A (10 minutes) 2. Discussion: <ul style="list-style-type: none"> • Has everyone understood what sustainable development is? • What solutions in your city are leading it toward sustainability? (10 minutes) 3. Activity: <p>Let's create a sustainable city together. Divide students into groups. Each group will create a model of a sustainable city from things they find around them. These can be items from the classroom, garden, or school playground. After completing the activity, each group presents their city and tells what sustainable solutions have been implemented in their city. (40 min)</p>

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	- 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 6-9 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=NdSmZ2X_6-s (5 minutes)</p> <p>3. Draw your form of transportation to school. Is it environmentally friendly? (15 minutes)</p> <p>4. Mind Map: What are the benefits of public transit? Group activity (15 minutes)</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	- 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 6-9 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=CEoOFa-lp6w (10 minutes)</p> <p>2. Discussion: How many green zones are there in your city? What are their advantages? (10 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	- Increase awareness of the green architecture
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 6-9 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=gTyNUMbJChA (10 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	- Increasing awareness of Smart Cities.
Green Competences Linked	1.2.11. SDG 11 Sustainable Cities and Communities
Target Group	Primary school students aged 6-9 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=Br5aJa6MkBc (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: Imagine that your city is a Smart City. What would it look like? Draw or paint it. Consider the technological solutions that contribute to sustainable cities.</p>