

# Global Citizenship – An Interdisciplinary Approach in Primary School @NUthmani



# Mathematics & Sustainability

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*Maths focus – Measuring of lengths in cm and metres*

- *Learning context:*
    - *Consider why roof top gardens are popular in big cities ie. Lack of space, lack of green spaces, importance of green spaces to hwb and the environment*
    - *Design on paper, an eco-friendly roof top garden accurately measuring out the size of different areas within the garden in cms.*
    - *Using the design, construct a 3D model of your garden, including features that will make it eco-friendly and sustainable for the future ie. Solar panels, green spaces likes plants, foliage, vegetable patch*
    - *Include accurate measurements in writing of the various parts of your finished model in metres.*
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# Focus: Maths/Sustainability

# Stage: Second Level

## Mathematics

I can use the common units of measure, convert between related units of the metric system and carry out calculations when solving problems. **MNU 2-11b**

## Focus for Assessment

**SAY:** Discuss why roof top gardens are needed in big cities/what features does an eco-friendly garden need and why.

**MAKE:** Design & then construct a 3D model of a roof top garden, including features that will make it eco-friendly.

**WRITE:** Write a description of what features you have included and the impact of those on the environment.

**DO:** Include accurate measurements of all main areas using the appropriate unit of measure.

## Literacy

**L&T:** As I listen or watch, I can make notes, organise these under suitable headings and use these to understand ideas and information and create new texts, using my own words as appropriate. **LIT 2-05a**

**Writing:** I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. **LIT 2-25a**

## Expressive Arts

I can develop and communicate my ideas, demonstrating imagination and presenting at least one possible solution to a design problem. **EXA 2-06a**

## Learning Context

### Mathematics: Measure

### Global Citizenship Focus: Sustainability

## Health and Wellbeing

I make full use of and value the opportunities I am given to improve and manage my learning, and, in turn, I can help to encourage learning and confidence in others. **HWB 2-11a**

## Social Studies

I can discuss the environmental impact of human activity and suggest ways in which we can live in a more environmentally responsible way. **SOC 2-08a**

## Science

By considering examples where energy is conserved, I can identify the energy source, how it is transferred and ways of reducing wasted energy. **SCN 2-04a**

### Sustainable Development Goals

**SDG 11:** Sustainable Cities & Communities

## ICT and Technologies

Through discovery and imagination, I can develop and use problem-solving strategies to construct models. **TCH 2-14a**

Having analysed how lifestyle can impact on the environment and Earth's resources, I can make suggestions about how to live in a more sustainable way. **TCH 2-02a**

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