ENGLISH 9 • CITY LIFE • STEAM DESIGN WORKSHEET

WORKSHEET 1: DESIGN & LANGUAGE BLUEPRINT

Topic: **Green City Pocket Guide – Designing a Smart Eco-Friendly Hangout for Teens**

Group Name:	**Class:** 9A..... | **Date:** .....
Project Leader:	**Language Editor:** .....
STEAM Architect:	**Digital Designer:** .....

PART 1. LANGUAGE BANK (VOCABULARY & GRAMMAR FOCUS)

Key Vocabulary: *urban heat island, heat trap, cooler shade zone, dark concrete, shade canopy, vertical green wall, permeable paving, eco-friendly, refill station, solar-powered, recycling bins.*

Target Structures (Use at least 2 structures in Part 4):

- **Double Comparative:** *Dark concrete surfaces trap heat, making outdoor hangouts **hotter and hotter**.*
- **Suggestion:** *We **suggest planting** more trees and **building** a shade canopy to cool down the area.*
- **First Conditional:** ***If** teens use our eco refill station, they **will reduce** single-use plastic waste.*

PART 2. STEAM SCALE & AREA CALCULATION (SCALE 1 : 25)

Reference Scale: Model Base = 30 cm × 40 cm (1,200 cm²) ↔ Real Hangout Space = 7.5 m × 10 m (75 m²). Divide by 16 to convert model cm² into real m².

Hangout Zone	Model Area (cm²)	Real Area (m²)	Main Cooling / Eco Solution
1. Heat Trap (Comparison Spot)			Dark concrete, no trees (shows heat trapping)
2. Green Seating & Shade Zone			
3. Eco Refill & Recycling Station			
4. Teen Chill & Bike Parking			

Recycled Materials List: ..... | **Estimated Cost:** ..... VND

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PART 3. DESIGN BLUEPRINT (SKETCH YOUR 30 × 40 CM LAYOUT WITH ENGLISH LABELS)

Draw & label: Heat Trap vs. Cooler Shade Zone (Shade Canopy, Green Wall, Refill Station, Bike Parking)

PART 4. 1-MINUTE ENGLISH PITCH OUTLINE (4–5 SENTENCES)

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