



PART B: PROJECT PLANNING & DESIGN

12-Week School Vegetable Garden and Composting Project

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This folder contains all planning work completed before starting our 12-week school garden and composting project. It covers our project proposal, team setup, site checks, garden design, composting plan, and needed materials.

B01_Project_Proposal

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In Week 1, our class discussed sustainable gardening and composting matter for our school. We walked around the campus to look for good spots for garden beds. Each group wrote a simple proposal explaining what we wanted to grow, how we would manage waste, and what we hoped to learn.

B02_Team_Formation

B02_Team_List

To keep things organized, students were divided into small teams during Weeks 1 and 2. This helped make sure everyone had clear tasks during construction and weekly maintenance.

B02_Roles_and_Responsibilities

We split the daily and weekly duties into four main team roles:

- **Site & Soil Team:** Prepares ground, checks soil quality, clears weeds, and adds mulch.
- **Plant Care Team:** Waters plants, sets seeds and seedlings, marks plant tags, and tracks growth.
- **Compost Team:** Collects food scraps and dry leaves, layers the heap, checks moisture, and turns the pile.
- **Safety & Tools Team:** Handles tools safely, cleans equipment after work, keeps storage tidy, and makes sure everyone washes hands.

B03_Site_Assessment

B03_Site_Assessment_Report

During Week 2, we surveyed candidate locations on campus. We picked a spot that is easy to reach, safe, level, and close to a water tap.

B03_Soil_Testing

We checked the school soil to see if it was too sandy or clumpy.

B03_Sunlight_Assessment



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We tracked sunlight on the chosen plot at different times of the day during Week 2. The site gets about 6 to 8 hours of direct sun, which is plenty for growing vegetables.

B03_Water_Availability

We checked that a functional outdoor water pipe was right next to the plot. This made daily watering with cans or hoses quick and simple.

B04_Garden_Planning

B04_Garden_Layout

In Week 3, we drew a layout for our garden. We chose a mix of raised beds, ground beds, and simple container tubs to fit the space well.

B04_Vegetable_Selection

We selected fast-growing vegetables suited for our local climate, such as leafy greens, tomatoes, beans, and radishes. We have planned to make plant tags so classes could identify each crop.



B05_Compost_Planning

B05_Compost_System_Design

The students have planned an in-ground composting system by digging a compost pit where garden waste and other biodegradable materials will decompose naturally to produce organic compost.



B06_Materials

B06_Materials_List

We made a list of tools and supplies needed before construction started in Week 4.

Table 1: Material and Tool List

Category	Items Needed	Main Use
Tools & Safety	Hand hoe, spades, watering cans, gloves, Pickaxe	Digging, planting, and safe tool handling
Garden Beds	School Scrap, pots/tubs, topsoil	Building beds and keeping soil moist
Plants & Seeds	Vegetable seeds, young seedlings, plant markers	Planting crops and marking species
Compost System	-	In-ground composting system



12-Week Project Work & Planning Map

This table shows how our weekly activities line up with the planning documents in Part B.

Table 2: Weekly Schedule and Part B Mapping

Week	Phase	Main Activities	Part B Section Ref.
Week 1	Start & Idea	Discussed garden project, walked site, wrote group proposal	B01_Project_Proposal
Week 2	Survey & Roles	Tested soil, sun, water; set team roles; made tool list	B02, B03, B06
Week 3	Layout & Compost	Planned garden bed setup and picked dual-bin compost system	B04, B05
Week 4	Build & Safety	Prepped soil, collected leaves/scraps, safety talk	B03, B05, B06
Week 5	Planting	Sowed seeds, put seedlings, labeled crops, started compost layer	B04, B05
Week 6	Compost Check	Checked compost heat, dampness, and air; midpoint review	B05
Week 7	Routine Care	Watered plants, pulled weeds, added mulch, turned compost	B03, B05
Week 8	Data Logs	Measured plant growth, checked moisture, checked compost maturity	B03, B05
Week 9	Using Compost	Under processing	B05
Week 10	Sharing	Students shared their gardening experience.	B01
Week 11	Final Prep	Made posters	B01, B02
Week 12	Exhibition	Showed garden to school, turned in reports, wrote team reflections	B01 - B06

Learning from Previous Years

The planning for the current phase was informed by the experiences of the previous two years. Earlier work helped the team understand the practical requirements of garden maintenance, composting, student participation and regular documentation.