

RESOURCES

TITLE | DESIGNING OUTDOOR CLASSROOMS FOR EFFECTIVE TEACHING

CATEGORY | Garden Educator Training

SUB-CATEGORY | Outdoor Classroom Design

OVERVIEW | This document outlines a training for garden educators on how to design an effective and engaging outdoor classroom.

Training Rationale:

Education Outside garden educators were trained to use the Top 10 as an assessment tool at the beginning of the year to determine what infrastructure was missing or needed improvement in their outdoor classroom (see *Building Your Outdoor Classroom: The Top 10*, in the Table of Contents). Garden educators referred back to it throughout the year as a reference or for inspiration.

Suggested Time of Year:

Conduct this training in August or September after the *Annual Care with Students* training so educators will already be comfortable with their garden knowledge and skills before assessing their classroom infrastructure. This training should also be paired with the *Construction Basics* training so educators will have the skills to tackle major infrastructure projects.

Suggested Workshop Length:

2 hours, with scheduled check-ins throughout the year to assess outdoor classroom design, development, and use during lessons.

Training Objective:

Garden educators will learn that infrastructure and design play an important role in classroom management and student engagement in outdoor classrooms (as it does in all classrooms) and have the resources to improve their outdoor classroom design.

Training Overview:

In this training, garden educators will be introduced to The Top 10 infrastructure recommendations for an effective outdoor classroom (see *Building Your Outdoor Classroom: The Top 10*, in the Table of Contents). They will assess their current classroom design and infrastructure, and begin plans to add to or improve their space. This training can either be held indoors with a projector or outdoors with printouts, to show The Top 10.



Trainers should have garden educators:

1. Review their existing outdoor classroom design, including the natural and built structures.

2. Reflect on standard elements of an indoor classroom. How does the design of the classroom support student learning, student outcomes, and teacher effectiveness?

3. Reflect on how outdoor classrooms can mirror indoor classrooms to support learning and teaching. What are some special considerations to take into account when designing and using an outdoor classroom?

4. Assess their current space by using the Top 10: An Extended Picture Guide, linked in the Table of Contents, and answer these questions:

- What is already there?

- What is missing?
- What could be improved?
- What would I like to change?

5. Develop a project plan to install or improve one or more elements.

6. Review the Best Practices Rubric, linked in the Table of Contents, as a tool for integrating the outdoor classroom space into lesson planning and answer the following questions:

7. How can infrastructure support or hinder the Best Practices?

8. What practices should I integrate into all classes due to the current infrastructure (e.g. a routine that gathers all students at the meeting place that is clearly designated)?

Activity Ideas:

- Have educators draw or bring a map of their outdoor classroom. Label natural, built, and/or artificial elements and include labels and descriptions of existing teaching elements (e.g. seating area, perennial and annual growing spaces, storage, etc.). With a partner or in groups, have educators compare and contrast their existing space with the Top 10 infrastructure elements list to determine what is missing or could be improved. Begin an initial plan for adding or improving infrastructure.

- Create worksheets or tools that help assess varying aspects of outdoor classroom design during or after the presentation of the Top 10. See the following worksheets for examples of those used by Education Outside educators to assess their classroom design:

- Assessing Outdoor Classroom Design

- Getting Your Outdoor Classroom Up and Running
- Landscape Design Consideration Worksheet
- Assessing Outdoor Classroom Design, Part 2

Assessing Understanding:

Exit Ticket:

- Have educators list their top two strongest infrastructure elements, two that are missing, and one that exists but needs improvement.



Assessing Outdoor Classroom Design

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INSTRUCTION AREA			
Seating	 Every student has a seat Seating options can accommodate different class sizes Seats are facing away from the sun Seats are in good condition (no protruding nails/sharp edges, no paint peeling, no wobbles, no rotting, graffiti-free) 		
Whiteboard	 Board is of adequate size (space to post visuals) Board is mounted safely (will not fall over in the wind) Board is visible to all students Board is in good condition (no graffiti, erases adequately) 		
Teaching Table	 Table is large enough to include a staging area for materials in use Table has space to store materials not in use (if necessary) Table is in good condition and structurally sound (no protruding nails/sharp edges, no paint peeling, no wobbles, no rotting, graffiti-free) 		
Garden Agreements	 Garden agreements are clearly written and visible from the seating circle Incentive system is clearly posted and used (if relevant) Sign is in good condition (no protruding nails/sharp edges, no paint peeling, no rotting, graffiti-free) 		
🗆 General	 The teaching circle is protected from the elements (sun, wind, noise) to minimize distraction Instructor has an established system for written student work (worksheets, science folders/journals). If student work is stored, folders/journals/notebooks are stored neatly and are easy for the instructor to find when needed 		

GARDEN AREA			
Food Garden	 There is space in the garden to grow annuals showcasing at least 3 of the plant parts/life cycle stages Raised beds are in good condition (no protruding nails/sharp edges, no paint peeling, no rotting, no rust, graffiti-free) 		
Exploration Area	 Garden has the healthy perennials needed to teach successful lessons (based on scope and sequence) A diversity of plant and animal life is found throughout the year Students have opportunities to engage all of their senses 		
□ Storage	 Shed has enough space to store all tools safely Shed has a lock Shed is in good condition (no protruding nails/sharp edges, no paint peeling, no rotting, graffiti-free) 		
□ Stations	 Minimum of two stations (dig zone and watering station) exist Station "zones" are clearly defined Stations have storage for necessary materials 		
🛛 Worm Bin	 Bin is in good condition (not broken/rotting, no sharp edges) Bin is stored in a place with sun/rain protection Bin has accompanying materials for students to interact with the worms (magnifying lenses, worm bin bingo cards) 		

🗆 General	 There are areas of low and high stimulation (i.e. peace corner and dig zone) Students have opportunities to engage all of their senses Signs/murals/diagrams are posted to invite students into the space and help them engage There is space for small group work and individual work

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Getting Your Outdoor Classroom Up And Running

Use this checklist as a guide during your first outdoor classroom walk-through.

Annual Beds

□ I.D. existing plants in annual beds. Weed/remove undesired plants.

(Note that existing plants in beds might not all be annuals! Plants that have gone to seed can be used for seed collecting with kids, or can be removed to make bed amendment easier.)

- What should stay?
- What can be removed?
- □ Add compost (~2-4 in.)
 - Do a basic assessment of the soil. What do you notice? Is it hydrophobic?
- Add water
 - Highlight areas that need immediate attention
 - Make a basic watering plan

Perennial Spaces/General Garden

- Check the health of your perennials. Water if needed.
 (Plastic milk jugs or buckets with holes are great for adding water slowly!)
 - Did any perennials die over the summer? Are there any that need to be pruned?
- Check for safety precautions and clutter. Resolving safety precautions is the highest priority at the beginning of the year!

Prep Your Teaching Circle

- □ Take an inventory of your teaching materials
 - What's available? Sharp pencils, erasers, name tags, coloring (crayons/pencils/markers), etc.
 - Where might you set up materials during a lesson? Is there existing infrastructure you could use?
- Figure out where students will sit, ensuring that every student will have a seat (*Temporary seating solutions, such as a tarp or PE poly spots, are definitely okay, especially for new sites!*)
 Find a north-facing seating area if one isn't set up
 - How might students enter and exit the garden/seating area?
- □ Locate or write garden agreements

Landscape Design Consideration Worksheet

For each of the design considerations below, find an element or area in the garden that represents the described consideration. Draw a representation of your findings and write a short note on how you think it influences your experience of the space.

SIGHTLINES	Vista with clear view of a large area	Blocked sightlines	
CIRCULATION	Wide, straight path	Thin, curving path	
LEVELS	Low, horizontal shapes	High, vertical shapes	
SLOPE	Steep slope, flow	Valley, pool	
EXPOSURE	Open to sun and wind	Protected, covered	
GATHERING	Space for a group	Space for an individual	
FOCUS	Single focal point	Accents and competing elements	



UNITY	Unique Form	Repeated Forms	
ENGAGEMENT	Element with an immediately clear use	Element with varied or ambiguous use	
Stationary object FLEXIBILITY		Moveable object (can be relocated)	
Separate storage space STORAGE		Integrated storage space	
Angular, formulaic shape SHAPE		Curving, naturalistic shape	
MOVEMENT		Moving	
COLOR		Cool (Blues, Greens)	
SEASONAL CHANGE	Mostly unchanging over time	Changing with seasons	

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Assessing Outdoor Classroom Design, Part 2

To form a design improvement plan, use this worksheet mid-way through the year after becoming familiar with the intricacies of your outdoor classroom.

What challenges do I have at my site?

- 1. Unused space
- 2. Current activity or space that isn't working
- 3. Desired activity with no dedicated space

What are my needs?

- 1. Answer the 5 W's and develop a needs statement:
 - Example: I need a system for <u>multiple students (who)</u> to <u>water (what)</u> during <u>class time (when)</u> using the <u>rainwater cistern (where)</u> so they can <u>work at this station independently while I'm helping students at another</u> <u>station (why)</u>.
- 2. Consider the three motivations: classroom management, student engagement and aesthetics. Example below.

Area/Activity	Needs			
	Management	Engagement	Aesthetics	
Sand Pit (unused space)	Need something to indicate where sand pit 'starts' and 'ends'- this will help when I tell students "everyone needs to be out of the sand pit in 10 seconds"	Need a space for students to easily access and store sand pit play tools so I don't have to haul them out every day and they have more ownership	Need plants along the fence lines to make the area more attractive	
Watering (current activity or space that isn't working)	Problems: Bottleneck created because only one student can fill watering can at a time; not enough watering cans and the cans we have are too big and heavy Need smaller watering cans and a way for more than one student to fill at once.	Problems: Need adult assistance to fill watering cans- students can't easily regulate water flow and it's hard to get the water in the can without spilling Need a way for students to funnel water into cans	Problems: Currently no good place to store 22 watering cans Need a space to neatly hang 22 cans.	

