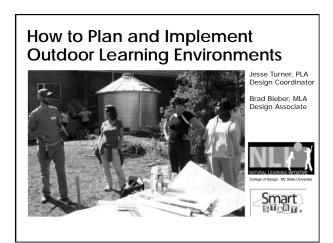
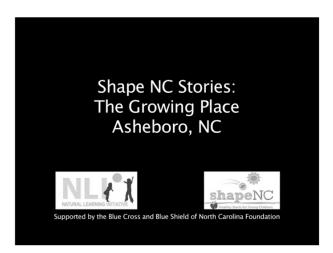
How to Plan and Implement Outdoor Learning Environments





Steps

Step 1: Assessment

- · Existing Site Conditions
- Needs Physical, educational, etc.
- Best Practice Assessment

Step 2: Vision/Plan

- . Measure site & create base map
- Create Concept Design
- Develop scale plan and/or on-site layout

Step 3: Planning/Project Management

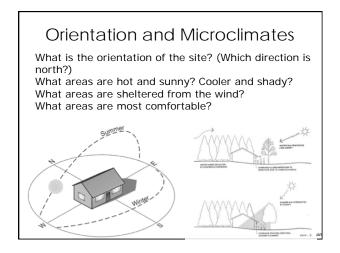
- Establish priorities
- Create Action Plan
- · Approximate cost and gather resources Step 4: Implementation
- What can volunteers build?
 - What will require a contractor to build?
- Step 5: Management

 - · Manage the living landscape
 - Replenish renewable resources (bamboo, tree cookies, etc.)
 - Maintenance (painting, etc.)

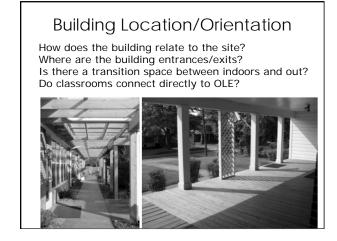
Site Assessment

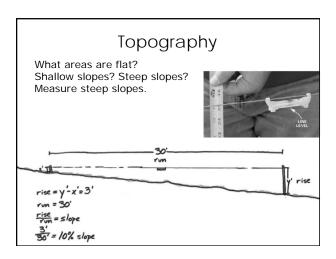
- 1. ENROLLMENT.
- 2. SITE SIZE.
- 3. SITE SHAPE.
- 4. ORIENTATION.
- 5. BUILDING LOCATION/ORIENTATION.
- 6. MICROCLIMATE.
- 7. TOPOGRAPHY.
- 8. DRAINAGE & EROSION
- 9. ACCESSIBLE ROUTES/PATHWAYS.
- 10.SERVICE ENTRANCES.
- 11.SITE BOUNDARIES/BUFFERS.
- 12.EXISTING SETTINGS.
- 13.SPECIAL FEATURES.
- 14.SHADE.











How to Plan and Implement Outdoor Learning Environments

Drainage & Erosion

What happens when it rains? Is there erosion? Drainage issues? Wet, muddy areas?





Accessible Routes & Pathways

Are there main pathways in the OLE?

Do they accommodate wheeled toys?

Do they connect to the building and existing settings?



Site Boundaries & Buffers

Are the site boundaries clearly marked? Do they coincide with the lot lines? Can fences be moved? What type of fences? How tall? Vegetated buffers?

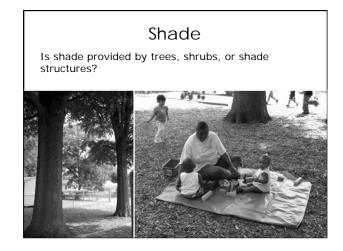


Existing Settings/Special Features

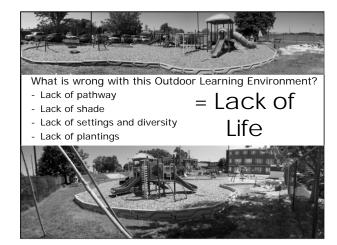
Which settings or special features are worth conserving? Examples: Trees, shrubs, or rocks. Removed or modified?











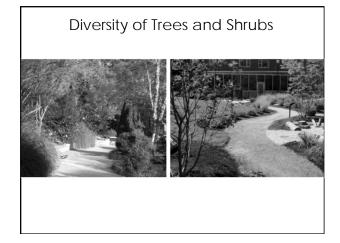


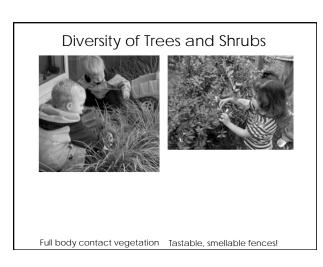
How to Plan and Implement Outdoor Learning Environments



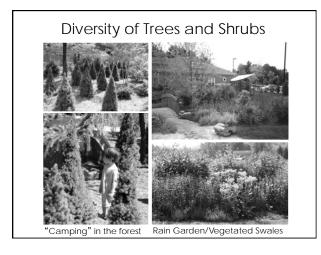
OLE Best Practice Indicators

- 2. 3.
- 4.
 - within OLE
- 6. Designated vegetable garden7. Natural materials
- 8. Outdoor toys
- 9. Settings that support a variety of gross motor activities
- 10.Ten settings or more





How to Plan and Implement Outdoor Learning Environments



Trees and Shrubs: Design Considerations

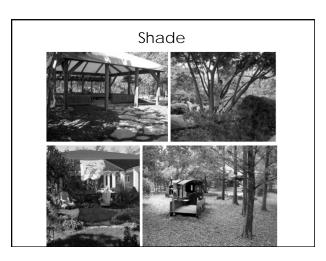
- spaces
- · Think about the scale of the child
- Create "secret" spaces where children can get away, but that adults can supervise
- Seasonal supply of natural loose parts
- Protect new plants as they become established



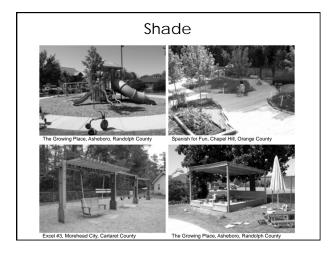








How to Plan and Implement Outdoor Learning Environments



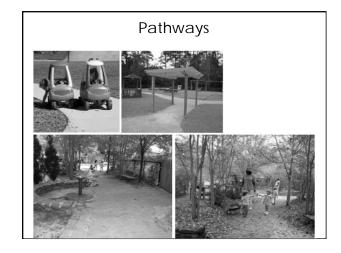
Shade: Design Considerations

Shade can be provided by:

•Vegetation. Use medium-size trees or large shrubs. 2 ½-inch caliper trees provide sufficient shade in a few years. Evergreens provide year-round shade, while deciduous plants provide shade spring to fall.

•Structures. Arbors, pergolas, tunnels, trellises.

Locate shade-providing vegetation and structures south or southwest of area that needs shade.





How to Plan and Implement Outdoor Learning Environments

Secondary Pathways

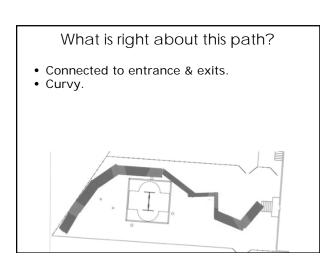




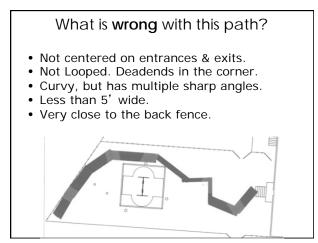
Primary Pathway Design Principles

- Connected to and centered on entrances & exits.
- Looped. No deadends.
- Curvy. Avoid sharp angles.
- Loop size. Leave space inside and outside loop for settings and buffers.
- Width.
 - ' minimum
 - I/T: 4'
- Respond to the geometry of the site.
- Keep pathways away from sand, walls, ball courts, and fences.

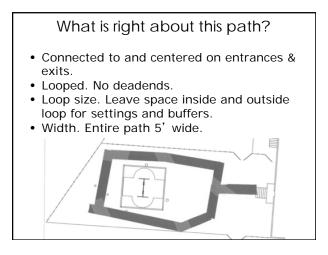
What is right about this path?

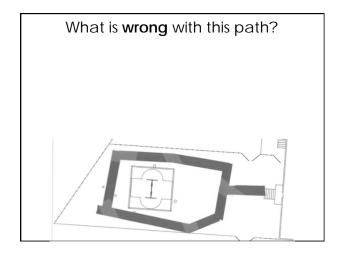


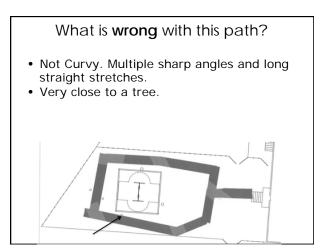




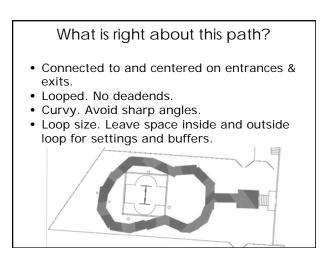


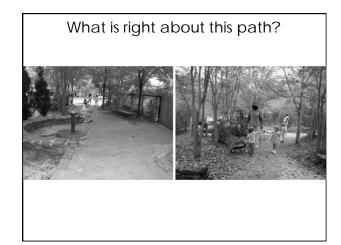


















How to Plan and Implement Outdoor Learning Environments



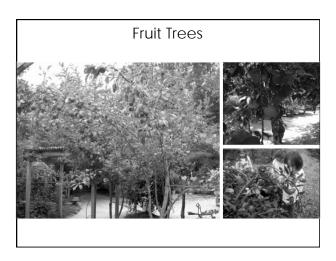


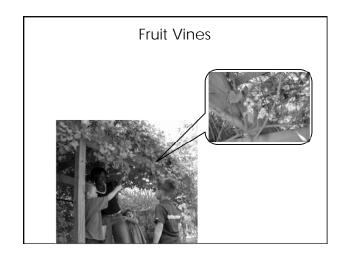


Multipurpose Lawn: Design Considerations

- Multipurpose: Games, dramatic play, story time, relaxation.
- Large enough for group of 25 children
- Naturalistic form.
- Defined edges.
- Connect to adjacent settings.
- Install quality lawn turf, well-drained, irrigated.







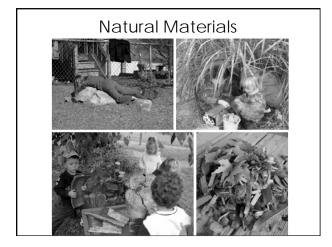


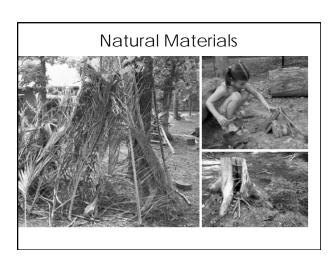
How to Plan and Implement Outdoor Learning Environments

Vegetable Gardens: Design Considerations

- · Location:
 - Sunny (veggies need 6 hrs. of sun per day)
 - Quiet and protected
- Near water source
- Protect in raised beds or with fencing or shrubs
- Defined entrances and pathways throughout.
- Various styles:
 - Raised beds
 - In-ground
 - Containers (pots, tubs, window boxes, buckets)







How to Plan and Implement Outdoor Learning Environments

Natural Materials: Design Considerations

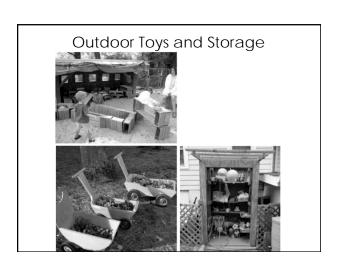
- Provide diversity of materials:
 - bamboo poles
- pine cones
- bark wedges
- leaves
- straw bales
- seeds
- small stones
- nuts
- log stumps
- flowers
- tree cookies
- wood chips

- trimmed branches
- and many more
- Include containment and accessible storage
- · Encourage children to gather natural materials to add to the collection



Sand Play: Design Considerations

- Depth of sand. Toddlers: 12-18", Pre-K18-24"
- · Location. Away from paths, against a fence or in a
- Containment. Timber, logs, or smooth rocks with plant buffers.
- Entry. Single entry with wooden deck.
- Covering. Cover with a fine mesh tarp or net when not in use. Allows sun, rain and fresh air to get to the sand.



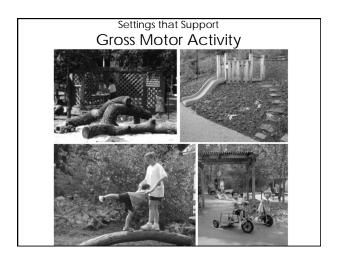
How to Plan and Implement Outdoor Learning Environments

Storage: Design Considerations

Provides storage for outdoor toys and garden

- Location. Access from primary pathway, close to settings where play and educational programs are held.
- · Access. If contents are accessible to children, they can learn to take initiative, carry out an activity, tidy up and return items when completed.





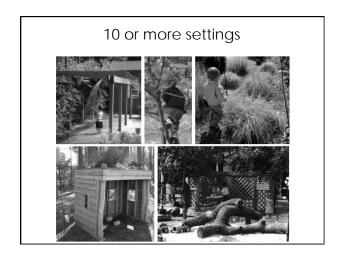
Settings that support Gross Motor Activity: **Design Considerations**

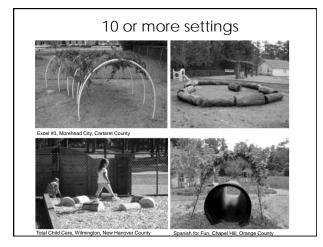
- · Provide an array of gross motor options for children of all abilities and interests.
- · Be creative. Think beyond traditional play structures:
 - Balance and climbing logs
 - Hill slides
 - Wheeled toy pathways
 - Multipurpose lawns
 - Other examples?

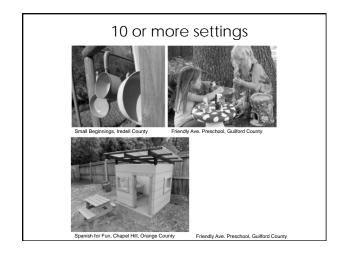
10 or more settings

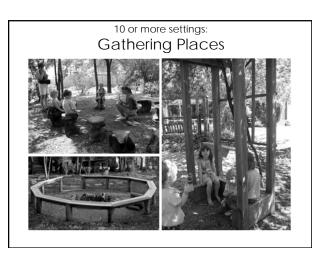
- 'Indoor-outdoor transition 'Sensory garden
- Pathways
- ·Gathering space
- ·Arbors, pergolas,
 - & trellises
- ·Multipurpose lawn
- 'Sand & Earth Play
- ·Water Play
- Decks and Stages
- •Tunnel
- ·Playhouse

- ·Grass maze
- ·Rain garden
- ·Vegetable garden
- Garden shed
- ·Animal Habitat garden
- Play hills and topography
- ·Play structure
- 'Loose parts and play props
- ·Outdoor storage

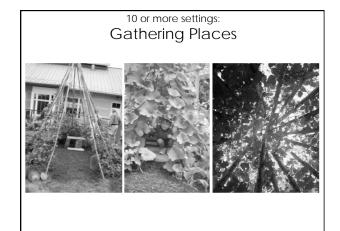








How to Plan and Implement Outdoor Learning Environments



Gathering Places: Design Considerations

- · Accommodate different size groups of children.
- Provide space for group gathering and/or quiet retreat
- Various types: Log benches, decks, vine teepees, sitting circles, low walls, smooth boulders, amphitheaters.
- Provide several sizes to accommodate different group sizes.









Multipurpose Decks and Stages: Design Considerations

- Dry, warm, year-round surface above ground.
- Size. A minimum width of 4-5 ft. can provide a useful activity space—up to 15 ft. affords all kinds of activities.
- Location. Straight edge against fence. Avoid differences of more than 6 inches in level between deck and ground.
- Shape. Squares, rectangles, hexagons, octagons.
- Enclosure. Trellises on back and sides add a sense of enclosure.
- Avoid drop-offs, hidden back spaces.

How to Plan and Implement Outdoor Learning Environments



Water Play: Design Considerations

- Use potable water that drains into the sewer system or rain garden.
- · No standing water.
- Consult state and local sanitation regulations that may apply.
- · Provide shade structures or shade trees
- · Various types of water play features:
 - Tables
- Misters
- Fountains
- Lawn sprinklers
- Play streams
- Spray pads

OLE Best Practice Indicators

- 1. 2.
- 3.
- J.
- 5
- within OLE
- 6. Designated vegetable garden
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Questions?

