Children’s outdoor space is being taken away.

Picnic tables better option then playground

Risking getting wet feet by splashing in puddle
Once in the woods, the children start exploring.

Biophilia is a bond between humans and living systems.

Children who play in nature have positive feelings.
Children like to be in enclosed spaces

Indoor play is different than outdoor play

Children play in places that promote their imagination
Image 2.1.10
Rock Canyon Park, Provo, Utah.

Image 2.1.11
Natural Playground in Copenhagen, Denmark

Image 2.1.12
Murergarden playground, Copenhagen
“Hey look...I’m a pirate!” When natural materials are present, children transform them into what they want the object to be.

Image 2.1.14
Adventure Playground in Berkeley, California

Photo by: Sharon Danks
Global Issues Impacting Children and their Parents

- Nature
- Nutrition
- Technology
- Economy
- Active Lifestyle
- Early Education Goals
- Academic Standards
- Outdoor Play
Image 2.2.1
Parents provide indoor distractions to keep kids safe

http://sixpondmeadow.com/tag/technology/

Image 2.2.2
Sunset on the Serengeti

http://camilaruz.wordpress.com/2011/06/27/safe-serengeti/

Image 2.2.3

Beauty and the Beast
Images

Alice and Wonderland. Walt Disney and RKO Radio Pictures. 1951
Image 2.2.4
Alice and Wonderland

Lilo and Stitch. Walt Disney Feature Animation. 2002.
Image 2.2.5
Lilo and Stitch

http://www.anodynedesign.com/blog/2010/02/22/bridge-trolls
Image 2.2.6
Three Billy Goats Gruff
Image 2.2.7
Hansel and Gretel. Grimm Bros. Fairy Tale

Image 2.2.8
Snow White and the Seven Dwarfs. Walt Disney and RKO Radio Pictures. 1937

Image 2.2.9
Snow White and the Seven Dwarfs
TV becomes the baby-sitter and entertainment

Structured playtime not as good as unstructured

Inadequate neighborhood park
Image 2.3.1
Learning in the natural environment

Image 2.3.2
“Mom doesn’t want my new clothes to get dirty”
Image 2.4.1
Apple Tree Wild Kindergarten

Image 2.4.2
Apple Tree Wild Kindergarten

Image 2.4.3
Apple Tree Wild Kindergarten
Images

Image 2.4.4
Apple Tree Wild Kindergarten

Image 2.4.5
Apple Tree Wild Kindergarten

Image 2.4.7
Cedarsong Nature Preschool, Vashon Island, WA
Forest Kindergartens in North America
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Size in acres</th>
<th>Number of Students</th>
<th>Number of teachers</th>
<th>Duration at school</th>
<th>Times per week</th>
<th>Established</th>
<th>Teacher Training</th>
<th>Proximity to school</th>
<th>All weather?</th>
<th>All year?</th>
<th>Fees</th>
<th>Clothing</th>
<th>Application to Apple Tree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple Tree</td>
<td>Cooper Woodland, Muncie IN</td>
<td>15 acres</td>
<td>20</td>
<td>4</td>
<td>2 hrs</td>
<td>not regularly scheduled</td>
<td>2011</td>
<td>yes</td>
<td>1 mile from indoor facility</td>
<td>yes</td>
<td>yes</td>
<td>$173/week</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Butterfly Garden</td>
<td>Cedar Park, Texas</td>
<td>4 acres</td>
<td>5 children/1 adult</td>
<td>1 adult/5 children</td>
<td>4 hrs</td>
<td>4 days/week</td>
<td>unknown</td>
<td>yes</td>
<td>on site</td>
<td>cancelled for extreme weather</td>
<td>yes</td>
<td>tuition free</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Carp Ridge Forest Preschool</td>
<td>Carp Ridge Learning Center, Ontario, Canada</td>
<td>190 acres</td>
<td>5 children/1 adult</td>
<td>1 adult/5 children</td>
<td>7 hrs/3 days (can be full or part time student)</td>
<td>unknown</td>
<td>2008</td>
<td>yes</td>
<td>on site</td>
<td>outside during extreme weather</td>
<td>two 2-week vacations</td>
<td>$50/day includes lunch and 2 snacks</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Cedarsong Nature Preschool</td>
<td>Vashon Island, Washington, USA</td>
<td>5 acres</td>
<td>8 children</td>
<td>2 teachers</td>
<td>3 hours</td>
<td>classes offered daily with a max of 4 days</td>
<td>2007</td>
<td>unknown</td>
<td>on site</td>
<td>cancelled for extreme weather</td>
<td>10 month program with 2 month summer option</td>
<td>$120/class max 4 classes/week</td>
<td>donated by Columbia Sportswear and Bogs Footwear</td>
<td></td>
</tr>
<tr>
<td>Earthroots Field School</td>
<td>Trabuco Canyon, CA</td>
<td>40 acres</td>
<td>10</td>
<td>2 teachers</td>
<td>5 hrs</td>
<td>2 days/week</td>
<td>unknown</td>
<td>Waldorf trained</td>
<td>location changes weekly</td>
<td>cancelled during extreme weather</td>
<td>two 16 week sessions</td>
<td>$1600/16 weeks</td>
<td>The location of the forest kindergarten is not permanent</td>
<td></td>
</tr>
<tr>
<td>Mother Earth School</td>
<td>Tyrone Life Community Farm, Portland, Oregon</td>
<td>7 acres permaculture farm next to 700 acres of state forest</td>
<td>4 children/1 adult</td>
<td>1 adult/4 children</td>
<td>3.5-4 hrs</td>
<td>3 days for 3 yr olds; 4 days for 4-5 yr olds</td>
<td>2007</td>
<td>Waldorf trained</td>
<td>at location</td>
<td>cancelled during extreme weather</td>
<td>follows Waldorf school calendar - several two week breaks</td>
<td>$5,000/year</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Waldorf School at Saratoga Springs</td>
<td>Hemlock Trail (NY State Park,) Saratoga Springs, NY</td>
<td>325 acres</td>
<td>23</td>
<td>unknown</td>
<td>3 hours/day</td>
<td>daily</td>
<td>2009</td>
<td>Waldorf trained</td>
<td>next to school building</td>
<td>yes</td>
<td>September-June</td>
<td>lunch provided</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Wood Haven</td>
<td>Beaverton, Oregon</td>
<td>approximately 3 acres</td>
<td>12</td>
<td>3</td>
<td>4 hrs</td>
<td>1 day/week</td>
<td>unknown</td>
<td>Waldorf trained</td>
<td>at location</td>
<td>cancelled during extreme weather</td>
<td>September-June</td>
<td>$3500/year</td>
<td>supplied by parents</td>
<td></td>
</tr>
<tr>
<td>Carbondale Waldkind Preschool</td>
<td>Carbondale, Colorado</td>
<td></td>
<td>No other information given</td>
<td>No other information given</td>
<td>2009</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 1
Image 2.4.8  http://www.motherearthschool.com/index.shtml
Mother Earth School, Portland, Oregon

Image 2.4.9
Carp Ridge Forest Preschool, Ontario Canada

Image 2.4.10  Photo by: Nathaniel Brooks for The New York Times
Waldorf School at Saratoga Springs, New York
Image 2.4.11 http://carbondalewaldkinderpreschool.blogspot.com/
Carbondale WaldKinder Preschool, Carbondale, CO

Image 2.4.12 http://www.woodhavenschool.com/
Wood Haven School, Beaverton, OR

Image 2.4.13 http://www.thebutterflygarden.net/programs/forest-kindergarten/
Butterfly Garden, Cedar Point, TX
Image 2.4.14 http://www.earthrootsfieldschool.org/
Earthroots Field School, Trabuco Canyon, CA

Image 2.4.15
Apple Tree Wild Kindergarten
Produced by: Alex Salmins
outside quite n/a nuts open
play horses stream
kicking

fish field
near

playground

backyard

pond hole leaves front

riding Loves

swimming bike grass/yard pot grass

area anything
driveway equipment

camping

sandbox

park

driveway/footprint

just Scooby truck

hut

playhouse/swing

swings

pit digging

ball

water siblings

maybe

Image 4.7
Image 4.13

- Visual barrier forms the walls
- Large tree establishes the corner
- Larger trees establish corners of classrooms
- Smaller trees provide subdivisions within the classroom but do not define edges

Corners of Classroom
Images

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Image 4.13
Image 4.15
Wald Sofa
Image 4.16
Hide & Seek
Image 4.17
Puddle
Image 4.19
Playground at Apple Tree

Image 4.20
Fallen Log at Cooper Woodland Visit 1

Image 4.21
Identifying corners of the classroom
Image 4.22
Building a house at Cooper Woodland

Image 4.23
Hide and Seek at Cooper Woodland

Image 4.24
Climbing Fallen Log at Cooper Woodland
Image 4.25
Tree Roots at Cooper Woodland

Image 4.26
Puddle at Cooper Woodland

Image 4.27
New Hiding Spot at Cooper Woodland
Image 4.28
In the hiding spot at Cooper Woodland

Image 4.29
On top of the arch

Image 4.30
Teeter totter in the woods
Image 4.31
In the waldsofa classroom

Image 4.32
At the end of the day

Image 4.33
Letting the water stay in the woods
<table>
<thead>
<tr>
<th></th>
<th>Woodland</th>
<th>Woodland/Prairie</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Installation</td>
<td>$8,000</td>
<td>$8,000</td>
</tr>
<tr>
<td>Grading</td>
<td>$14,000</td>
<td>$6,000</td>
</tr>
<tr>
<td>(1400 cubic yds transferred</td>
<td></td>
<td>(600 cubic yds transferred @$10/cubic yd)</td>
</tr>
<tr>
<td>@$10/cubic yd)</td>
<td></td>
<td>@$10/cubic yd)</td>
</tr>
<tr>
<td>Fencing</td>
<td>$8,200</td>
<td>$15,000</td>
</tr>
<tr>
<td>(aluminum fencing)</td>
<td></td>
<td>(pressure treated posts and boards)</td>
</tr>
<tr>
<td>Trees</td>
<td>$600</td>
<td>$2,000</td>
</tr>
<tr>
<td>Shrubs</td>
<td>$100</td>
<td>$14,000</td>
</tr>
<tr>
<td>Grasses</td>
<td>$0</td>
<td>$9,000</td>
</tr>
<tr>
<td>Groundcovers</td>
<td>$12,000</td>
<td>$0</td>
</tr>
<tr>
<td>Woodland Seed Mix</td>
<td>$2,000</td>
<td>$0</td>
</tr>
<tr>
<td>Boulders</td>
<td>$1,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>(limestone)</td>
<td></td>
<td>(granite, limestone)</td>
</tr>
<tr>
<td>Labor, Fuel, Shipping</td>
<td>$11,000</td>
<td>$11,000</td>
</tr>
<tr>
<td>Contingency</td>
<td>$7,500</td>
<td>$7,500</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$64,400</td>
<td>$82,500</td>
</tr>
</tbody>
</table>
1. Log and Puddle Classroom
2. Hide and Seek Classroom
3. Existing Pathways
4. Fallen Log Classroom
5. Waldsofa Classroom
6. Arch Classroom
7. Parking and Drop Off
8. Parking and Drop Off
9. Entry into Cooper Woodland

Image 5.1
Transition Zone of Apple Tree Backyard

1. Butterfly Garden
2. Flower Bed
3. Vegetable Garden
4. Stormwater Stream
5. Existing Playground
6. Gateway into Backyard
7. Vehicular Drop-off
8. Awning and Clean-up Area
9. Laundry and Storage Shed
10. Apple Tree Child Development Center
1. Woodland
2. Fallen Logs
3. Waldsofa
4. Prairie
5. Butterfly Garden
6. Vegetable Garden
7. Stormwater Stream
8. Sand Pit
9. Rock Pile
10. Wetland
11. Truck Stop
12. Existing Playground
13. Laundry Facility and Storage
14. Awning and Clean-up Area
15. Apple Tree Child Development Center
16. Vehicular Drop-off

Image 5.6
Images

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Canopy Vegetation

Understory Vegetation

Existing Vegetation

Apple Tree Backyard Design

Image 5.7