

# Preschool



### Rebecca Wolf

Director of Education & Garden Operations Queens Botanical Garden

**Eileen Prendergast** Director, Education Chicago Botanical Garden

### Cara Scearce

Manager of Studio Programs Newfields

## Newfields







## Newfields by the Numbers

152 Acres of Land

300 Full Time Staff

50,000 Artworks

10,000+ Plant Species

250,000 Spring Bulbs

135 Years Old





### St. Mary's Child Center at Newfields Preschool

### Enrollment: 12 students

Student to Teacher ratio: 6:1 Student ages: 3, 4, & 5 School Day: 9-11:30am School Year: August-June Annual Tuition: \$5,170 Full time/Part Time options Tuition/Scholarship



### The (Indoor) Classroom



## Growing a Nature Preschool at Newfields



### Early Childhood Programs at Newfields



Toddler Art Group



wee Wonders



Preschool Summer Camp

### **Reggio Emilia at Newfields**

Children need the freedom SINFINITE RESOURCES of their hands, and their ears, the resources of **FORMS**, MATERIALS, "sounds and COLOURS." Loris Malaguzzi



### The Business Plan



### An Average Day at Newfields Preschool

9:00 - 9:15 9:15 - 9:45 9:45 - 10:15 10:15 - 10:30 10:30 - 11:00 11:00 - 11:30 11:30 - 11:45 Drop Off

Exploration and Play in Classroom

- Gallery Visits and Special Guests
- Morning Meeting
- Outdoor Activities and Project Work
- Clean Up and Snack

Pick Up



## Challenges

- Storing Muddy Boots
- Occupying a Museum Space
- Refining Processes
- Recognizing Limitations



### Successes

- Teaching Team
- Integrating Art + Nature
- Learning Laboratory
- Returning students



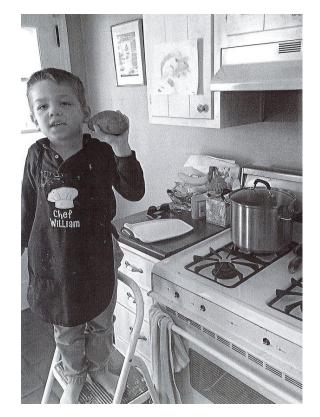
### **Potato Harvest Project**







### **Potato Harvest Recipes**



#### FAMILY POTATO "PROJECT"

In honor of our splendid potato harvest this week, we decided to send home a fun project for the children to do with their families. Today, each child will be coming home with a potato to cook in some way and taste at home. We ask that each family write down a recipe or describe in some way how they cooked the potato, and then each child can draw a picture of the finished potato dish and write (with family help) down how the potato tasted, smelled, etc. after tastine.

Enjoy! Mary & Elizabeth

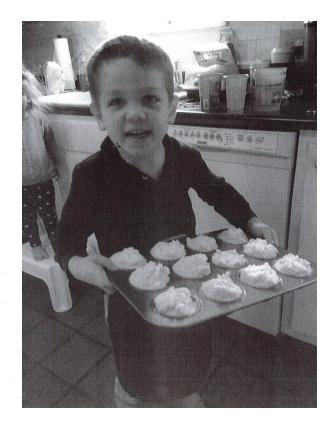
#### RECIPE: POTATO MUFFINS

WE WASHED AND PEELED. THEN OUT THEM UP AND PUT SOMETHING ON THE STOVE AND POURED THEM INTO THE PAN. THEN PUT LOTS MORE NORREPIENTS IN THEM. BUTTER, YUCKY MILK COREAND, ... SHREDDED CHEESE. AND PUT THEM IN THE MUFFIN PAN. AND POTATO DISH DRAWING: PUT THEM IN THE OJEN.



THEY SMELLED GOOD LIKE CHOCOLATE.

" THEY TASTED YUMMY. LIKE POTATOES. AND I LIKED THE KIND I MADE BETTER THAN THE OTHER KIND."



### Label Writing Project





### **Preschool Stories**

#### Meerkats

2018

#### **Cracking Art** Italian, founded 1993

recyclable plastic

Collaborative by nature, meerkats travel in groups known as "mobs" or "gangs." This is essential to their survival. Each member of a mob acts as a lookout, warning others of predators. They are also able to adapt to their environment, even in the most hostile conditions.

#### SUMMER WONDERLAND SPECTACULAR CREATURES

#### Preschool Stories

Addie: Mine is dancin

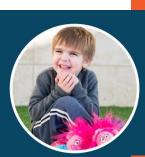
Ollie: Mine is spitting

Aerith: Mine is drumming

Addie: There at a birthday party for the meerkat. Time to blow out the candles. Here's your cake, here's my cake.

Ollie & Aerith: Num, num, num.





Ollie | Age 3





ddie | Age 3



# Growing a Nature PreSchool

By Rebecca Wolf

Assistant Director/Director of Education and Garden Operations

Queens Botanical Garden, Flushing, Queens, New York City

**Mission:** Queens Botanical Garden (QBG) is an urban oasis where people, plants, and cultures are celebrated through inspiring gardens, innovative educational programs, and real-world applications of environmental stewardship.







### Our Programs: School Programs

- Botanical/Science Content
- Year-round but matching school calendar
- 17 different workshops
- Mostly Mornings, matching school bus schedule
- Mostly one-time visits





### Our Programs: Children's Garden

- Gardening and other nature based programming
- Spring, Summer and Fall sessions
- Ages 4-10
- Split into groups by age
- 8-10 kids per group with 2 counselors
- Spring: 8-week series, weekends
- Summer: Two week sessions, weekdays
- Fall: 5 classes, can do drop-in or whole series, weekend





### Our Programs: Garden Buds (newer)

- 2+3 year olds w/caregiver
- 1 hour program
- Offer both weekend and weekday
- 4 week series (tried 6-week but too long)
- Sessions sell out very quickly
- Spring, Fall and just added Summer 2018
- 5 options: 1 weekday, 2 Saturday, 2 Sunday





### Our Programs: Nature Discovery Area

- Installed to 'test out' a freeplay area
- All natural materials found on site
- Pilot started at large event
- Incredibly successful
- Has mostly biodegraded (installed 2015)



# Rebecca's inspiration: seeing is believing

- Nature Explorium: Middle County Public Library (Long Island, NY)
- Brooklyn Nature Days: Prospect Park, (Brooklyn, NY)

### Nature Based PreSchool Conference through Natural Start Alliance (under NAAEE)

- Nature Preschool at Dodge Nature Center: (St Paul, MN)
- Green PlayYard, Minnesota Landscape Arboretum (Chaska, MN)

AND SO MANY MORE!!!!



### Nature Play Programming- how do we do it!?



### Forest Explorers Season 1: Autumn 2016

- 6 children, 2 teachers
- 2 days per week;same children both days
- 3-6 years old, must be potty trained
- 3 hours per day

Revenue: \$4720

Expenses: \$4865 (84% Staff time, 16% OTPS) Net: -\$145





- Forest Explorers
   Seasons 2 and 3: Spring and Summer 2017
  - 12 children, 3 teachers + one intern
  - 4 days per week; children chose 1, 2, 3 or 4 days/wk
  - 2-6 years old, if not potty trained parent must stay
  - 3 hour sessions
  - Updated curriculum
  - Sessions: March/April, May/June, July/August

Revenue: \$32,225

Expenses: \$29,286

Net: +\$2939✔



# Forest Explorers Seasons 4 and 5: Autumn and Winter 2017/8

- Only change in structure is 2 days/week minimum sign-up
- Expand number of weeks per session
- Sessions: September to November; January to March
- Solidify cold weather curricula and space
- Less full winter registration

Revenue: \$36,103

Expenses: \$31,158

Net: \$4945



### Forest Explorers: Season 6 and beyond

- Increase number of children
- Meet children first
- Structured internship program
- Pilot afternoon program:

-Older children only (nonnappers)

-Limited to 8 children

- Budget in office hours
- Minimize set-up/breakdown
- Continue breaking even



### Issues and Concerns:

1) Initial lack of clarity about the program in communication with families Resolved by:

- Require a 'new family questionnaire' (added spring 2018) completed
- Elicit and discuss previous experiences in similar settings
- Require that all new families observe a 45 minute segment of the program (added spring 2018)-- used a doodle poll for scheduling!
- Increase and expand staff training so everyone could speak confidently and clearly
- Registration link is not public; we invite people to sign up (Downside: a lot more work on our end, but worth it!)

### Issues and Concerns:

2) With expanded program, need experienced staff

- Be VERY specific on job descriptions and during interview (outdoors, with kids, heavy lifting, all weather....)
- Review motivation/protocols/techniques of program throughout the season
- Pay a reasonable rate
- Offer PD and train them well! Do readings but also observations of our program and other similar programs, watch videos
- Weekly meetings and check-ins throughout
- Talk through challenging children/families. Come up with joint solutions
- Have backup so everyone can get a break

### Looking to future programming

- More family engagement
- More collaboration with Horticulture, Farm and Education teams
- Scholarships
- Adding office hours
- Making the area shade/rain tolerant
- Creating an preschool/UPK program
- More PD for staff
- Looking for older (homeschool) children to join
- Adding social justice and other relevant issues to training and curricula
- Need for separate area that is not open to the public

		On	ne day in the lif	e of an Expan	ded Forest E	xplorers Progra	m running 41	weeks of the y	ear	
	Time	Group	# Children	Activity	Head	Co-Teacher	Assistant 1*	Assistant 2*	Total Staff	Support
	8:30-9:30 (K 9-9:30)	Set up	0	Set up	Teacher \$1	5 \$18	\$15	\$8		9
	9:30-10:30	Group 1	12	Open Play	\$3	<b>10</b> \$18	\$15	\$15		97
	10:30-11:30	Group 1	12	Meal Story Art	\$3	<mark>0 \$18</mark>	\$15	\$15		9
	11:30-12:30	Group 1	12	Open Play	\$3	<b>10</b> \$18	\$15	\$15		
	12:30-1:30	Group 2	4	Lunch	\$3	<b>10</b> \$18	\$15	\$8		
	1:30-2:30	Group 2	4	Open Play	\$3	<b>10</b> \$18	\$15			
	2:30-3:00	Lunch break	0	Lunch break	9	i0 \$0				
	3:00-4:00	PLAN (EOD)	0	Planning EOD	\$1	5 \$9	)			
	Mondays	OFFICE	0	Work/Teaching	\$3	0	\$0	•		
					\$21	0 \$117	\$90	\$60	\$477	\$
					×4 days per week	4 days per week	4 days per week	4 days per week	4 days per week	
					47 weeks per year	43 weeks per year	41 weeks per year	41 weeks per year	43 weeks per year	
					39,48	\$20,124	\$14,760	\$9,840	84,204	
	Mondays	Children	Children	Revenue		Staffing	Supplies	Overhead	Contingency	
	8 X 20							Staffing +	Staffing +	
	\$160	\$504	\$88	\$752	:		\$20 per day	Supplies \$87,644	Supplies \$87,644	Annual Co
	1 days per week	4 days per week	4 days per week	4 days per week			4 days per week	x	x	of Progra
	31 weeks per year	41 weeks per vear	41 weeks per vear	43 weeks per vear			43 weeks per vear	10%	5%	
	\$4,960	1	J			\$84,204	1			
<s td=""  <=""><td colspan="8">*2 fewer children are paying due to scholarships and under enrollment</td><td>,</td></s>	*2 fewer children are paying due to scholarships and under enrollment								,	
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SEASON	WEEKS				
WINTER	10				
break	2				
SPRING	12				
break	2				
SUMMER	7				
break	2				
AUTUMN	12				
break	5				
	41 ON				
	11 OFF				

### THANKFUL!

- Horticulture (mowing the lawns, letting us pick flora for projects, pruning the trees over our heads!)
- Education (sharing staff, jumping in if needed, sharing bathroom and other spaces, collaboration on curricula, giving us gardening spaces)
- Security (making sure the kids are safe!)
- Maintenance (fix broken objects, let us use their tools as well as laundry machine)
- Visitor Services (helping out parents and other visitors, parking, etc)
- **Development** (looking for various grants and opportunities-- we did receive one during our first season!)
- Marketing (created our flyer!, helped us GREATLY with registration forms and online documents, edited our listing many times on the website and social media)
- **Finance and HR** (helped make sure we were meeting our goals, paid our staff, helped hire and make decisions on staffing)
- **Executive Director** (pushed for and encouraged us!, allowed us to run our experiment, helped raise money, network with other leaders about our great program)



# **Growing a Nature Preschool**

Eileen Prendergast Director, Education American Public Garden Association Conference 2018

# Chicago Botanic Garden

- North of Chicago in Glencoe
- Opened in 1972
- 385 acres: 27 display gardens & 3 native habitats
- 240 full time staff
- 1 million + visitors; 51,000 member households
- 150,000 people in 1,700 education programs



Mission: We cultivate the power of plants to enrich and sustain life





#### **Preschool Overview**

Year One Mornings: Classroom A	Monday 4 year olds	Tuesday 3 year olds	Wednesday 4 year olds	Thursday 3 year olds	Friday 4 year olds		34
Afternoons: Classroom A		3 year olds		3 year olds		-	
						-	
Year Two	Monday	Tuesday	Wednesday	Thursday	Friday		
Mornings: Classroom A	4 year olds	3 year olds	4 year olds	3 year olds	4 year olds	→	55
Afternoons: Classroom A	4 year olds	3 year olds	4 year olds	3 year olds	4 year olds		55
Year Three	Monday	Tuesday	Wednesday	Thursday	Friday		
Mornings: Classroom A	4 year olds	3 year olds	4 year olds	3 year olds	4 year olds		
Mornings: Classroom B		3 year olds		3 year olds			78
Afternoons: Classroom A	4 year olds		4 year olds		4 year olds		
Afternoons: Classroom B	3 -5 year olds	3 -5 year olds	3 -5 year olds	3 -5 year olds			

3 year olds meet 2 days a week for 2.5 hours (\$2,520) 4 year olds meet 3 days a week for 3 hours (\$3,940) 3 – 5 year olds meet 4 days a week for 3 hours (\$5,200)

15 – 16 students per class1:8 ratio plus volunteer

### Early Childhood: The Early Years

Hands-on, inquiry-based science activities that did not meet audience needs







### Inspiration

**Emphasis** on developmentally appropriate methods, processes, and experiences, not facts and content.

#### Natural Wonders

A Guide to Early Childhood for Environmental Educators



Created by the Minnesota Early Childhood Environmental Education Consortium

Marcie Oltman, Editor

https://www.seek.mn.us/sites/default/files/naturalwonders.pdf

# Youth & Family

- Open ended play
- Sensory "sandboxes"
- Toddler/baby adaptations
- Loose parts











# Youth & Family









### Teachers

- Early Intervention
- Gateways authorization
- Custom programs
- Conferences





#### Spaces: Growing Garden & Cove

Self-guided and free play opportunities





#### **Nature Preschool**

Can we really do this?

- Conference
- Site visits & research
- Five year business plan financials & programs





#### Learning with Nature Embedding Outdoor Practice

Claire Warden 💲

## **First Steps**

- Hire staff-make the investment
- More site visits & research







# **Professional Development**

- National & international organizations
- Local organizations: Northern Illinois Nature Preschool Association & the Alliance for Early Childhood, Eastern Region Association of Forest & Nature Schools
- Conferences
- Continuing education



# Advertising & Recruiting

- Open houses
- Libraries
- Buckslips
- Member magazine & catalog
- Presence at family programs
- Word of mouth





CHICAGO BOTANIC GARDEN

### Licensure & Accreditation

- DCFS-Yes!
- NAEYC-Maybe!









#### **Spaces: Nature Play Garden**

#### Gross Motor Appropriate Risk Loose Parts







#### Indoor Classroom



#### Indoor Classroom









#### **Outdoor Classroom**





#### **Outdoor Classroom**







## Year One

- Enrollment began 9 months in advance
- Two Three classes!

#### **Daily Schedule**

30 – 45 minutes: Outdoor Classroom Play
1 hour: Garden Exploration/Hike
15 minutes: Snack
30 – 45 minutes: Continued Hike/Free Choice
15 minutes: Circle & Story

At least 50% outdoors

### Year One

- Staffing & volunteers
- Horticulture collaboration





## Year One

- Parent & Family Support
- Gear
- Snacks







#### Year Two Program Goals, Assessments **Practices** Dr. Patti • Conferences Bailie's • Substitutes "Natureness" Scale Nature Buddies

ENVIRONMENTAL AWARENESS								
Does not show interest in the natural world and the living things in it	Takes an interest in the natural world and the living things in it	Shows respect and empathy for the natural world	Cares deeply about the natural world and is motivated to take action to protect it					
PRE-LITERACY SKILLS								
Enjoys looking at and listening to books	Connects print with oral language and shows interest in letters and words	Associates letters with sounds and can read some words	Matches oral language with words on the page, points to words as reads					
LARGE MOTOR SKILLS								
Can maintain short hike on flat terrain without falling	Sustains balance during movement experiences such as jumping	Can hike in a controlled way in a variety of terrains including hills and rocks	Can balance while walking along a log					

### Year Two: Documentation

"We began our hike looking for the letters in the tree branches. We searched...for...the letter 'L' for love! The children were so proud of themselves when they found the letters...I posed the question, 'What do we love about the outdoors?' The children and their ideas inspired our hike! 'We love the snow,' the children exclaimed, so we stopped to show some love to the snow...[We rolled] down the hill. This is something that the children love and it strengthens their vestibular system which is part of the larger sensory motor system. The vestibular system has to do with balance, movement, and is centered in the inner ear."



# Year Two: Emergent Curriculum RAMPS!

" A way of planning curriculum that is based on children's interest and passion at a certain point in time."





## Year Two: Emergent Curriculum

3





**FIRE!** 







## Year Two

- More Horticulture Collaboration
- New Outdoor Spaces





#### Year Two: Natural Materials









# Year Three & Beyond

- Financial aid
- Marketing plan
- Continued professional development
- More gardening
- Changing role of director
- Partnerships



#### Please continue the conversation



Where people, plants, and cultures meet

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NEWFIELDS A PLACE FOR NATURE & THE ARTS

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