

Rudolf Arnheim originated the term, "visual thinking"

".... art training is not one of the minor fillers of the curriculum but relates to the very fundamentals of education.

What are these fundamentals? reading, writing and arithmetic? Certainly, these are indispensable skills; but should we not realize by now that they are just skills? And that even as a list of skills the list is incomplete?

If I am not mistaken, the three fundamentals of education are

perceiving thinking forming

is needed to exert these faculties of the mind are ords and shapes. Of these three sets of tools the first en considered the only essential ones since the Middle sust now rehabilitate the third." Art Education Magazine, March 1983

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My personal experience teaching junior high school art clay disaster

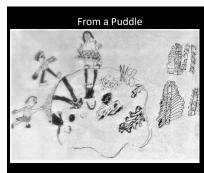
Coming to Smith College

- teaching in the Department of Education, laboratory school (elementary) and early childhood center,
- discovering answers in the early years
 meeting Lella Gandini and learning about Reggio Emilia
 The Hundred Languages of Children Exhibition comes to UMass



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".... when the rain leaves behind a puddle...the game opens up and draws in all the children's intelligences....they use their intelligences to playfully contemplate situations and worlds that are *turned upside down*...there is a very close correlation between speech, thought and graphic representation..."

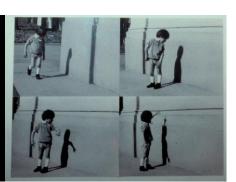
Loris Malaguzzi

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Natural

Phenomenon "The more time you spend with children, the more you notice how inquisitive they are about the world and how keen is their thinking about the most subtic thingsuthings you can touch but can't touch, that brush against the real and the imaginary, that have something of the mysteriousness about them..."

Loris Malaguzzi











Where do shadows come from if the sun's not out? The air. The moon. The streetlights.

Wait, I thought there weren't any shadows in the evening.





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An early documentation panel



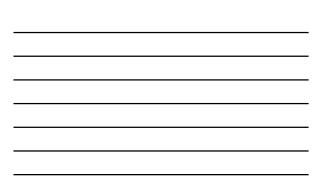


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"Teachers at Fort Hill are trying to look at materials differently. We are researching new possibilities for gathering and exploring found objects and natural materials with young children. We believe in the emergent curriculum – following the lead of the children as they interact with a new material – so we are trying to step back and watch what happens as the children explore."







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To create *Beautiful Stuff from Nature we* **posed a challenge** to teachers of young children in North America with whom we had worked:

"Sometimes young children see in Nature something new and surprising.....



It would be fantastic if you could capture that moment in images and words and see where that moment might lead....."

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Ever-Changing Big Skies Albuquerque Public Schools Albuquerque, New Mexico

Mary Bliss, Pre-K Teacher Dona Sosa, Pre-K Teacher Gigi Yu, Early Childhood Art Resource Teacher

In this new book teachers and children from across North America explore and create with natural materials from their local environments.

Ordinary experiences become extraordinary as teachers record images, quotes and reflections in order to make learning visible.













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Windy is a 20 year-old Cypress tree. She gives us much needled shade in our hot climate. She brings us a peek into understanding seasons since she iactually one of the few trees in our area that is deciduous. She sheds her leaves in the fall, is bare in the winter, and grows green again in the spring.



















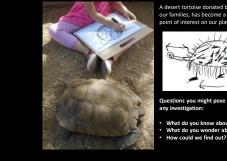
about thi ee got :

it got to

ean: Lots of cactus get really tal nd they don't fall down.

id: It got too tall.

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A desert tortoise donated by one of our families, has become a favorite point of interest on our playground.

Id we find out?

e to fur tions you might p to you know



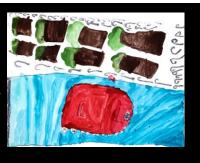


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A School's Response to Hurricane Irma L'Atelier School South Miami, Florida

Simonetta Cittadini, Founder and Director





Hurricane Irma arrives in Florida at the very beginning of the school year.







Two Ways That I Begin

From Amy Miller at Beginnings Nursery in NYC



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As the children bring their containers to the rug, I provide the name of each material...Then I say, What can we do with this material? or, How can we use it to make a design? or, I noticed that you all chose materials that are round (or long or shiny....)

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Children often begin by setting out objects in a line. As they become more familiar with the studio space and the materials, their designs become more elaborate.









Neatly arranged materials in containers on the shelves entice the children and inspire design and construction.





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Drawing offers a way to look closely and appreciate these three-dimensional

> hoosing which **point** f view to work from another decision hat invites close

t helps to draw stems from the pottom up, the way shev grew.





The students practice forming the letters of their names on a strip of paper. They get a sense of scale and move materials around until they are evenly spaced.



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Close Study of Life Cycles

Scientific Observation and Beginning Writing Campus School of Smith College

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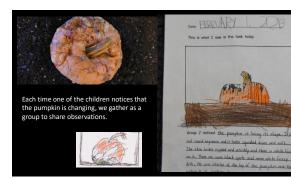


Studying pumpkins – noticing parts and properties, recreating details by sculpting and drawing from observation



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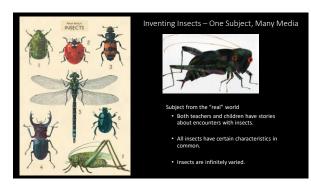








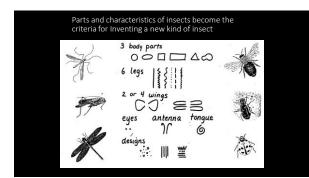










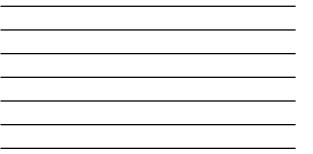


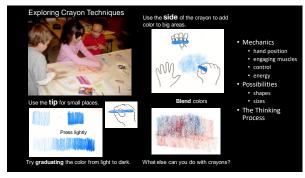
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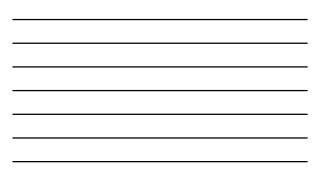


Introducing the fine line marker and the idea of **practicing** and **planning**.





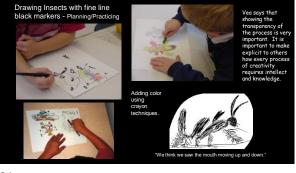








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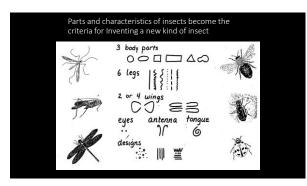
















What shape will you invent for the head? The thorax? The abdomen?

*Note: one color of paint at a time
passing the paint when the music stops.
brush goes back into the jar before passing.

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Where do the legs attach to the body?

How could we find out?

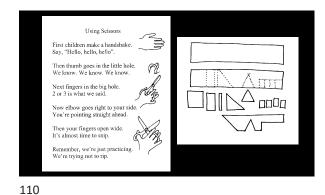
In order to answer questions, children do some research.

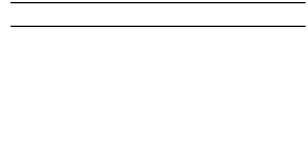
Clay can act as a research tool to help children look closer.













Exploring Scissors

hand position
engaging muscles
control

energy
 Possibilities

shapes
sizes

The Thinking Process

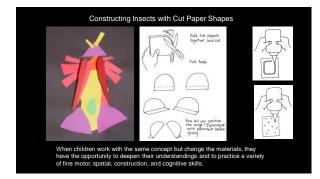


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One subject interpreted through different visual languages

- Curriculum integration
- Once children work in this way, it can be used on other topics



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Young children **think** in **unusual** ways. They are always going beyond set ideas as they explore tools, materials and processes.

As they explore and experiment, children raise questions, construct understandings and try out approaches to learning, recognizing themselves as problem-solvers and inventors. In this way they are utilizing the same behaviors as engineers, scientists and artists.

Key Learnings

- \bullet Slow down. Cultivate that "delicate and observant way of being with children."
- Take more time to explore materials, tools and processes. Young children are natural explorers. They teach us how to explore if we really pay attention. Teachers need to explore too. Exploring materials is a way to begin.
- Documenting is a way to study children's different ways of exploring .
 Documenting becomes a way to research each child's way of working.
- Reflecting together, discussing what we hear and notice as teachers is what elevates and brings clarity, understanding and appreciation of individual children. It also makes teaching more collaborative and more fun.
- Reflecting with the children is a way to test our understanding, and to identify new ideas to pursue.





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THINKING



Explorations in Art Kindergarten