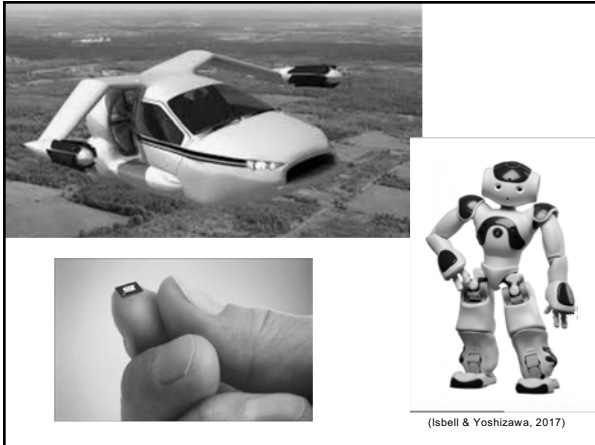


Some Reasons

- Expanding amount of new information.
- Adapting to the changing environment.
- Increased understanding of brain development.
- New challenges that have never dealt with before.



Researchers predict that in about 12 years' time there will be **200** new professions we have not heard of before

(Business Day, 13/09/2018)

The Future of Jobs

- Robot Counselor
- Air Traffic Controller for Vehicles
- 3D Organ/Body Part Creator
- Trash Engineer
- Memory Creator

(World Economic Forum, Sept. 2018)

Why is
creativity
important in
today's
world?

Why is Creativity Important for Today's Children?

- Use varied ways to communicate
- Collaborate with diverse people on complex ideas
- Develop creative confidence to deal with issues
- Accept and take risks to make innovations
- Adapt to new ideas using flexible thinking



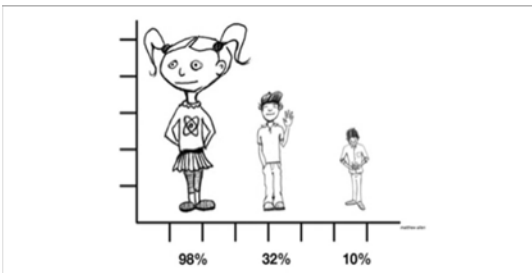
Torrance: A Pioneer in the Study of Creativity

- Studied young children in his research
- Identified that 4-year old children were the most creative
- Developed Torrance Test of Creativity



Dr. E. Paul Torrance

(Fox & Schirmacher, 2015; Torrance, 1965)



Torrance's 4 Elements of Creativity

- Fluency: Generating many possibilities
- Flexibility: Making adjustments and adapting from one idea to another
- Originality: Forming new and unique possibilities
- Elaboration: Improving and extending original ideas and concepts



(Fox & Schirmacher, 2015; Torrance, 1965)

*At a Time When Creativity
is Most Needed, We are
Seeing a Decline*

WHY? WHY? WHY?

- Focus on test-taking
- Increased requirements and standards
- Divergent ideas not valued
- Less time for the arts: visual arts, music, and movement
- Less opportunity for play
- Increased stress and anxiety

Research

- Torrance Creativity Test: Scores have decreased (1998 –2008)
- Children are less expressive, less talkative, and less imaginative.
- The most significant decrease was found in the Kindergarteners (5 – 6 years old),
- Young children generate fewer and unique ideas.

(Kim, 2017)

"We are preparing people to work in factories--NOT thinkers or problem-solvers."

"I believe that creativity should now be a priority for education in the world."

(Robinson, 2011)



Sir Ken Robinson

Recognizing the Need for Creative Communicators and Thinkers

- Finland
- China
- Singapore
- Italy
- Growing Number of Countries

The Essential 4C's in the United States



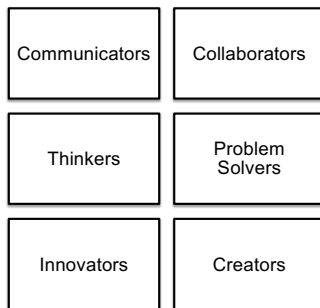
- Creativity
- Communication
- Collaboration
- Critical Thinking (Problem Solving)

(Trilling & Fadel (2009))

Who has the potential to
be creative thinkers?

Young Children!

In the 21st century, WE NEED:





Understanding the
Characteristics of
creative Children

CHARACTERISTICS:

Uninhibited

Filled with
Ideas

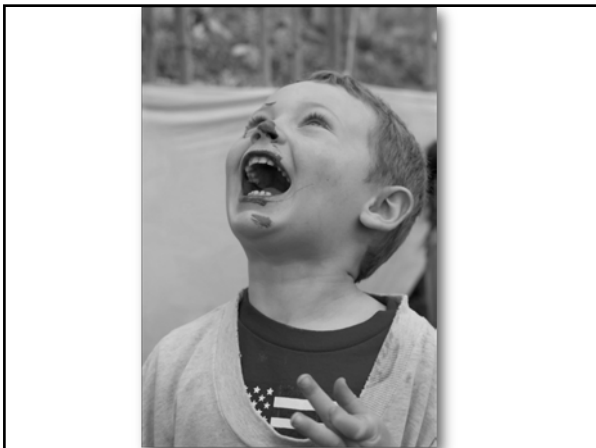
Confident in
their Abilities

Want to Do it
Their Way

Unconcerned
about What
Others Think


Our Challenge:

To support and nurture
children being creative



Communicators

Kim: "I can make the water go up!"



Inventive Language

Angie: "Did you ever notice that our legs also need clothes?"

Nayla: "I like your pink one!"

Angie: "It's called *leg-scarf*!"



Playful

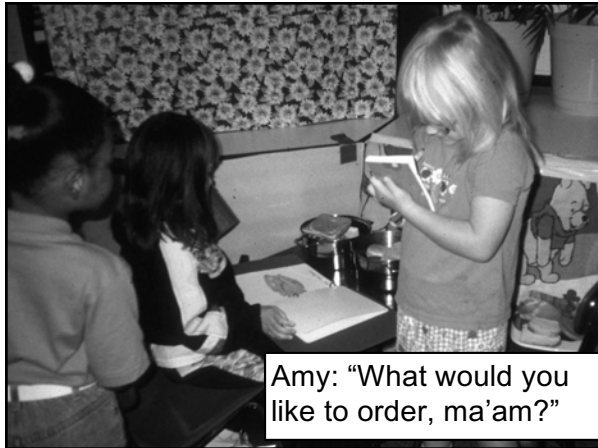


Ryan: "I made a
Jupiter-yarn!"
(giggles)

Collaborators



Attempt to construct something unique



Amy: "What would you like to order, ma'am?"



Ali spills sand on the floor. She decides to sweep the floor on her own (independent responsibility).

Soon after, Ali's friends join in, and they decide to sweep as well (collaboration).





Creative Thinkers

“My brain is full of ideas!!!”

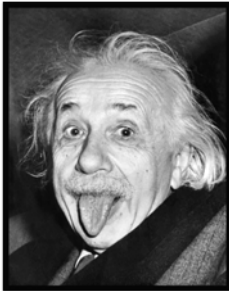




**Creative Teacher
=
Creative Children**

(Isenberg & Jalongo, 2014)

Cultural
Creativity C



Personal
Creativity c



Questions for You!

- Do you ever forget the words to a song and you had to quickly invent a new lyric?
- When you are preparing for dinner, you notice that a major ingredient is missing. What do you do?

YOU ARE CREATIVE!

Characteristics of a Creative Teacher

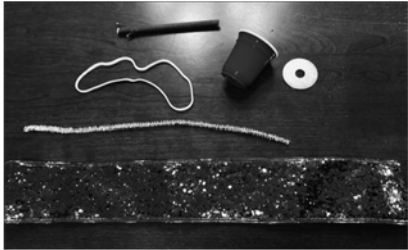
- Playful with children
- Have a sense of humor
- Flexible
- Willing to take risks and try new things
- Enjoys working with creative children
- Appreciates that messy leads to order
- Understands the importance of continuing to grow

(Isbell & Yoshizawa, 2017)

NURTURING
COMMUNICATORS,
COLLABORATORS,
AND PROBLEM
SOLVERS

Creative Process
or
Product?

TIME: TO CREATE



Benefits of Small Groups

- More opportunities to communicate with others
- Experiencing collaboration with different people and diverse ideas
- Participating in solving problems
- Experimenting with different ideas
- Choosing and evaluating possibilities



Questions: Provocation

- Wait Time
- “Wh-” Questions
- Interactive
- Convergent or Divergent?
- Posing Questions Before and Return to Later
- Brainstorming Possibilities
- Reflecting and Revisiting

(Isbell & Yoshizawa, 2017)



Providing Choices:

- Children decide what they will work on
- Determine which materials they will use
- Group or individual decides which projects to do, book to read, songs to sing, or find a way to solve problems
- Self-evaluation/Independent thinking

Which Center Will You Work In Today?



Open-ended
Materials: Many
Possibilities and
Combinations



Valuing Creative Moments

Communicating and Collaborating
with Children about their Ideas





Kim: "I made a video camera and a remote!"

Offering Opportunities for Children to Communicate their Unique Ideas



Valuing Creative Efforts



Projects: Following Children's Interest





Visiting Artists - Violin -

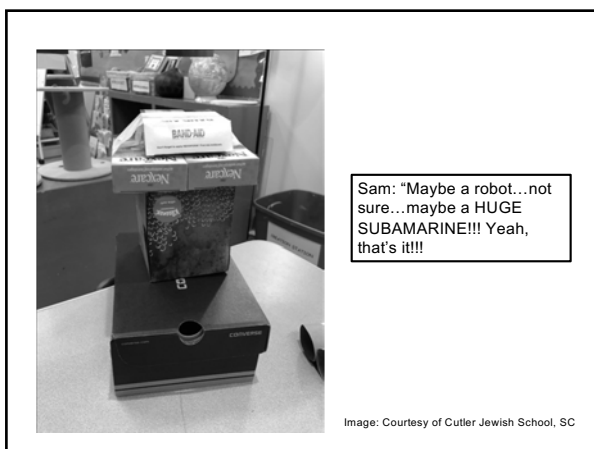
June: "Can I try making a looong sound?"

Ms. Layne: "A long sound? Sure, give it a try!"

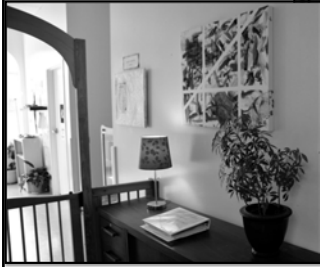
Designing an
Environment that
Nurtures Creativity

- Provide safe and caring places
- Present variety of materials and novel items
 - Respect and encourage uniqueness
- Provide places to work and display creations
- Understand that mistakes are part of learning
 - Encourage self-evaluation





Aesthetically
Beautiful
Environment



(Isbell & Evanshen, 2012)

A Quiet
Place for
Thinking
and
Reflecting



Unique Materials Presented in Novel Ways
to Stimulate Children's Creative Thinking



Chris:
"Hey! This
one sounds
louder than
the other
one!"



3-Dimensional Construction Using Unique and Collected Materials



Tommy: "It's a big
city with lots of tall
and pointy
buildings!!!"

Space and Places to Work



What is our challenge?

To **NURTURE** Young Creative Communicators, Collaborators, and Critical Thinkers!!!



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“free resources” on
drisbell.com website.