The Challenge of the 21st Century: Nurturing Young Children to be Creative Communicators, Collaborators, and Critical Thinkers

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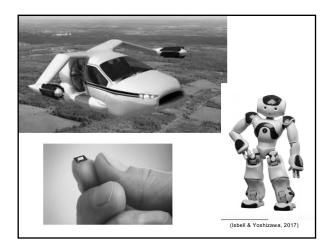
Communicators, Collaborators, Creators, and Critical Thinkers

Challenges in the 21st Century

The children in our classroom will live in a very different world than today.

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.

(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)

Bureau of Labor Statistics

- · Job growth will be in services.
- Second largest job generator will be educational services after health care.
- Teachers, trainers, and mentors prepare citizens for flexible, fulfilling, and productive jobs.

(Anne Morison, Time Inc.)

Why is creativity important in today's world?

Why is Creativity Important for Today's Children?

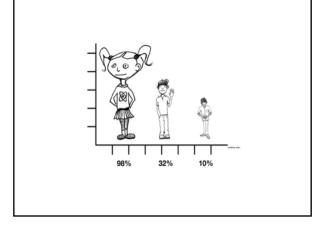
- Use varied ways to communicate
- Collaborate with diverse people on complex ideas
 Develop creative
- Develop creative confidence to deal with issues
- Accept and take risks to make innovations
- Adapt to new ideas using flexible thinking



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 & Schirrmacher, 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 & Schirrmacher, 2015; Torrance, 1965)

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

WHY? WHY? WHY?

- Focus on testtaking
- 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 problemsolvers."

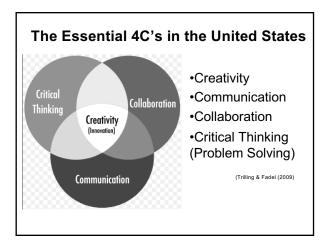
"I believe that creativity should now be a priority for education in the world." (Robinson, 2011)



Sir Ken Robinson

Recognizing the Need for Creative Communicators and Thinkers

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



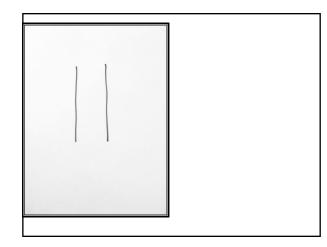
Confidence

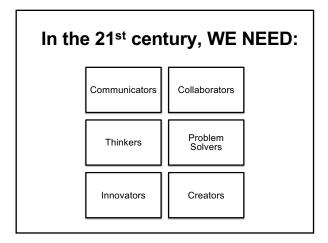
- Willingness to try
- · Persistence

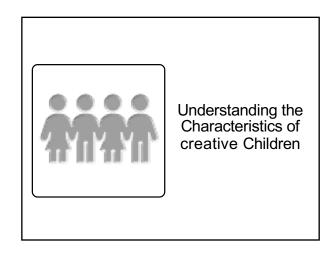
Golinkoff, R. M., & Hirsh-Pasek, K. (2016).

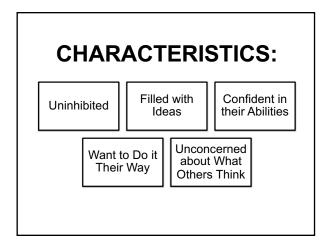
Who has the potential to be creative thinkers?

Young Children!









Our Challenge:

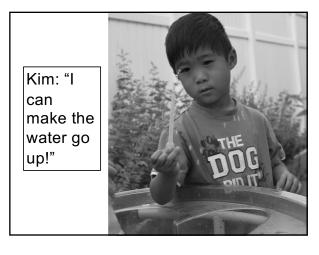
To support and nurture children being creative

Creative Thinkers need Time to PLAY with:

- . Ideas
- . Materials
- · Peers
- · Possibilities



Communicators





Inventive Language

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

Nayla: "I like your pink one!"

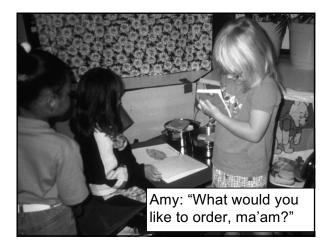
Angie: "It's called *leg-scarf* !"







Attempt to construct something unique





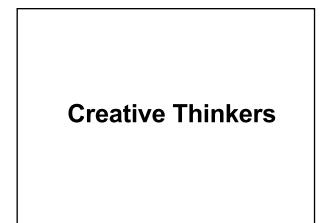
join in, and they decide to

sweep as well

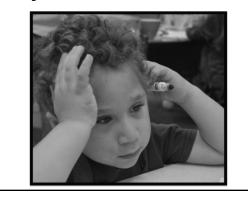
(collaboration).

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

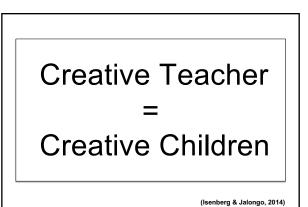




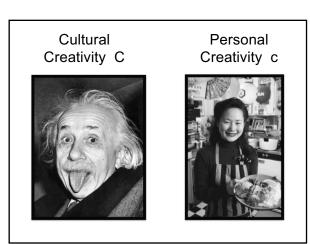
"My brain is full of ideas!!!"











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 Enjoys working with
- Have a sense of humor A
- Flexible
- Willing to take risks and try new things
- creative childrenAppreciates that
- Understands the
- importance of continuing to grow

(Isbell & Yoshizawa, 2017)

NURTURING COMMUNICATORS, COLLABORATORS, CREATORS AND PROBLEM SOLVERS

Creative Process or Product?

Benefits of Small Groups

- More opportunities to communicate with others
- Experiencing collaboration with different people and diverse ideas
 Participating in solving

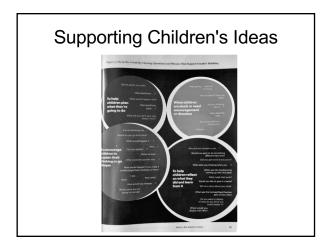


- problems
 Experimenting with different ideas
- Choosing and evaluating possibilities

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?





Valuing Creative Moments

Communicating and Collaborating with Children about their Ideas

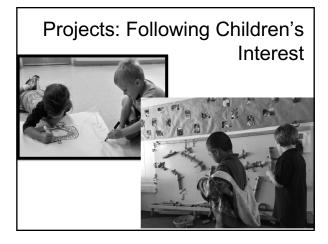


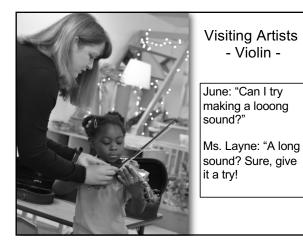


Offering Opportunities for Children to Communicate their Unique Ideas









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

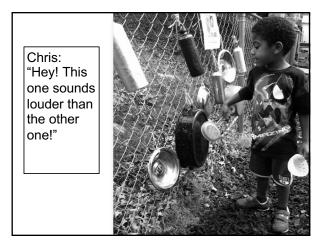
Encourage self-evaluation

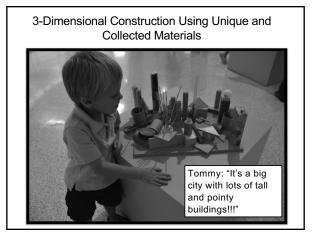


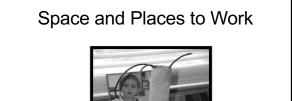












What is our challenge?





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