

The Future of Artistic Creativity: Models of Integration in School Curriculum

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#### Many ways of learning

And Artfulness

#### Research questions

- •Are there any examples of art-infused or artful educational programmes in Danish schools? What are their defining characteristics?
- •What kind of positive emotions does the art experience generate? And how?
- •Can of art-infused or artful educational programmes contribute generating a thoughtful and positive thinking culture in Danish schools?

### Findings: the gap

To think as a to	eacher	To think as an artist
<ul> <li>To manage to g the curriculum</li> <li>"Length"</li> <li>Skills</li> <li>No waste of time time)</li> <li>Student's own e</li> <li>Cognitive and e output</li> </ul>	expression	<ul> <li>To focus specifically on the work of art</li> <li>"Depth"</li> <li>Artistic drive</li> <li>It takes time to "digest" (optimising quality)</li> <li>The work of art's expression</li> <li>Aesthetic and medium-based output</li> </ul>

## Artfulness explained by Dewey

- O Works of art "hint at what life might be like if we sought more often to shape ordinary experience in an artistic manner.
- They thus offer indirect lessons about fashioning the more mundane aspects of our lives"

Philip Jackson, John Dewey and the Lessons of Art, New Haven and London, Yale University Press, 1998, p. 6

#### To think as an artful teacher

- •To manage to get through the curriculum, taking the time needed to focus specifically on the work of art
- To cultivate both "length" and "depth"
- •To focus on skills and artistic drive or mind-set
- •Optimising the use of educational time, by giving the students time to think and "digest"
- •To cultivate student's own expressions through means of works of art
- •Cognitive and educational output by means of the aesthetic and artistic attention to qualities (of medium, matter, meaning)

### Positive emotions in schools by means of art

- They are experimenting and learn to dare
- Curiosity: "They learn that they can learn without the teacher"
- They must make an effort: Things take time and technique pays off
- Coping with complexity: "Not everything can be understood"
- Experience and retain flow for a longer time
- Experience meaningfulness: "They feel that if they make an effort, they can do something meaningful"
- Experience an appreciative process (Self-esteem / self-confidence)
- "My contribution is just as important as the others"





### Rye-bread pudding and whipped cream!



#### Cases: design



#### Cases: animation



#### Positive emotions

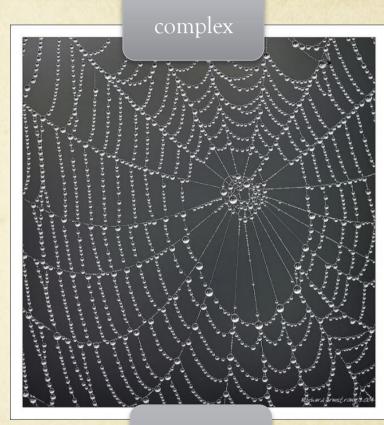
- "...broaden the scopes of attention, cognition, and action, widening the array of percepts, thoughts, and actions presently in mind"
- $\bigcirc$  Positive affects  $\rightarrow$  thoughts that are:
- Unusual
- Flexible and inclusive
- Creative
- Integrative
- Open to information
- Efficient



Fredrickson, Barbara L. and Branigan, Christine, "Positive emotion broaden the scope of attention and thought-action repertoires", in Cognition and Emotion, Psychology Press, 2005, vol. 19, no. 3, p. 315.

### How the arts influence positive affect

- O By means of e.g.:
- Complexity
- "Opacity"
- Metaphors
- Communication "in absentia"
- Inputs by senses and body
- Meaningfulness
- "Sociality"



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### Arts, positive emotions and learning

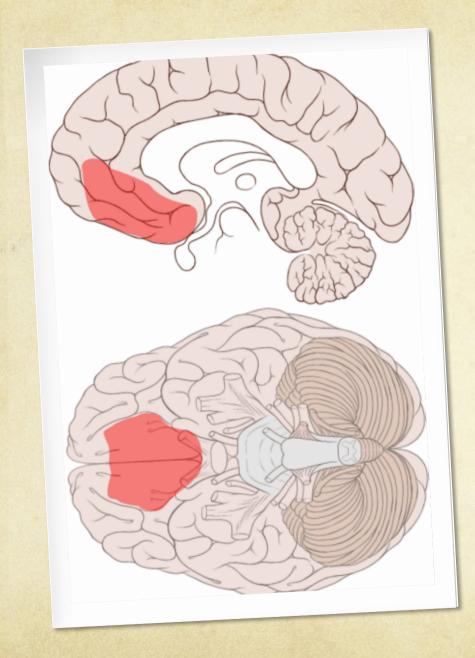
- o (ARTS)  $\rightarrow$  Positive Emotions, e.g. JOY  $\rightarrow$
- Momentary: urge to play
- Durable: building of skills (physical, intellectual, social)
- o (ARTS) → Positive Emotions, e.g. INTEREST →
- Momentary: urge to explore
- Durable: building of knowledge

#### Emotions and learning

The emotions' role is essential for:

- O Background processes, such as motivation
- Problem loosning
- O Decision-making
- O Ethical problems
- Continue Learning transfer

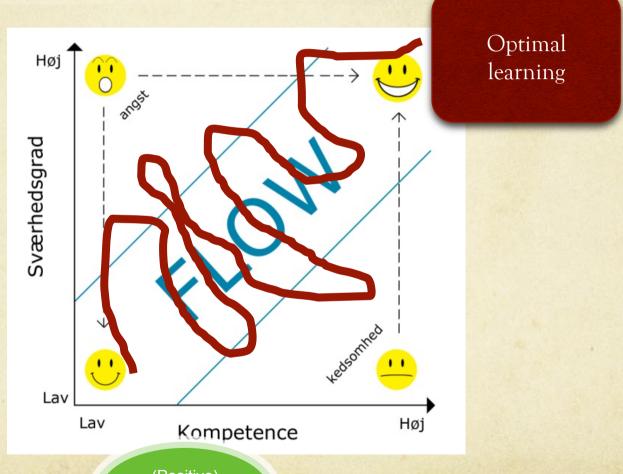
"Through regulating and inciting attention, motivation, and evaluation of simulated or actual outcomes, emotion serves to modulate the recruitment of neural networks for domain-specific skills"



# Ventromedial prefrontal cortex

- Decision making
- Problem losing
- Learning (application of knowledge in other, new contexts)
- Ethical problems
- Social emotions (empathy, envy, guilt, admiration)

#### A good balance



Cognitive intensity

(Positive) emotions

Inpireret af Csikszentmihalyi, 1990