



“The process of having original ideas, that have value”

CREATIVITY

cre-a-tiv-i-ty
/krēā'tivitē/

Latin term creō
"to create, make"

Ability to produce something new through imaginative skill, whether a new solution to a problem, a new method or device, or a new artistic object or form. The term generally refers to a richness of ideas and originality of thinking.

Many definitions: <http://celestra.ca/top-10-creativity-definitions/>

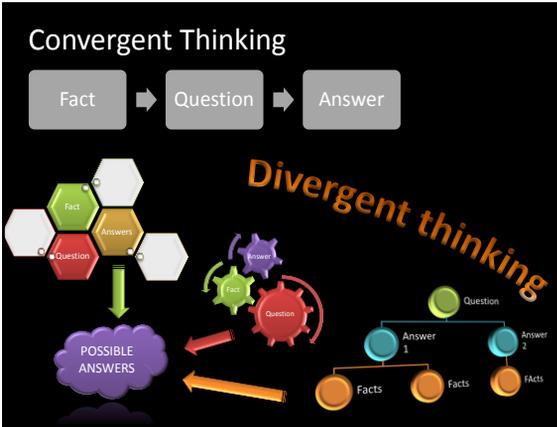


You cannot mandate productivity, you must provide the tools to let people become their best.
—Steve Jobs

If you're not prepared to be wrong, you'll never come up with anything original. And by the time they get to be adults, most kids have lost that capacity. They have become frightened of being wrong. -SIR KEN ROBINSON

The pioneer scientist must have a vivid intuitive imagination, for new ideas are not generated by deduction, but by artistically creative imagination. - Max Planck





Creativity in the classroom Mind-Mapping Activity

WHY?

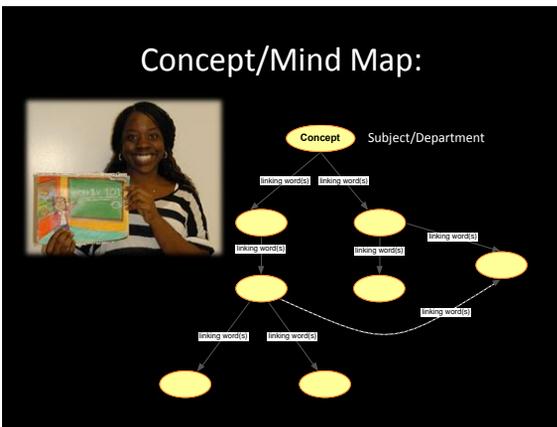
- Finding innovative and original solutions
- Inspiration to make new connections
- Review to understand the Big Picture
- Make connection to previous learned material
- Integrate old and new knowledge -> novel ideas
- Break down complex problems and solve small questions
- Create new meaning

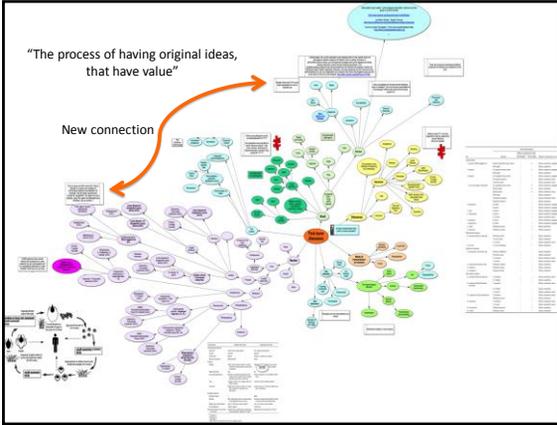
HOW? Inspiration.com (software and app); many

Who? Anyone - Subject and age independent

When? Any time

Starry Starry Night – on agar plate





Let's Do It!

Creativity in my classroom?

- creativity
- inspiration
- curiosity
- connections
- innovation
- big picture
- ageless
- left right brain
- ideas
- problem solving
- puzzle
- art
- science
- STEM
- STEAM
- Originality
- interdisciplinary
- subjective value
- Valuable
- Original
- Worthwhile
- Divine creation

Reviewing the Literature

- The ability to produce work that is novel and appropriate (Lubart, 1998; Ochse, 1990; Sternberg, 1988)
 - Novel – Original or Unexpected
 - Appropriate – Useful and Adaptive Concerning Time Restraints
- But how do we contextualize that?

Torrance & Moving Beyond Barriers

- Many followers believe that they are not creative because of those past experiences that may have inhibited their creativity – Unlearning ‘Simon Sez’
- Torrance (1999) writes that creativity is teachable
- Through specific skill development, the advancement of philosophical perspectives, and strategic practice we can enhance and supplement the creativity of learners (1999)
- Fluency, Flexibility, Originality, & Elaboration

Creating the Environment

- Edward de Bono – Lateral Thinking (1967)
- Effort in the same direction (approach) will not necessarily succeed
- Addressing Alternatives
- Nancy Kline – Time to Think (2001)
 - Attention, Appreciation, Encouragement,
 - Creating Space (removing fear & allowing depth)
 - Information, Sometimes
 - Play

Tangible Example



Jimmy Valvano, North Carolina State University

Assessment & Evaluation

- Removing Barriers
- If creativity is teachable, then it is quantifiable as well (Torrance)
- Novel & Appropriate (Sternberg)
- Examples

Other Resources

- Ken Robinson says schools kill creativity**
http://www.ted.com/talks/ken_robinson_says_schools_kill_creativity.html
- Sir Ken Robinson: Bring on the learning revolution!**
http://www.ted.com/talks/sir_ken_robinson_bring_on_the_revolution.html
- Itay Talgam: Lead like the great conductors (creating space)**
http://www.ted.com/talks/itay_talgam_lead_like_the_great_conductors.html
- David Kelley: How to build your creative confidence**
http://www.ted.com/talks/david_kelley_how_to_build_your_creative_confidence.html
- Teri Balsler: Teaching as if learning mattered**
http://www.ted.com/talks/teri_balsler_teaching_as_if_learning_mattered.html
- 10 ways mind mapping can help creative minds**
http://www.mindtools.com/pages/new/mnd/newmnd/mapping_solo_help_creative_minds/
- Mind Tools**
<http://www.mindtools.com/index.html>
- How Creative Are You?**
http://www.mindtools.com/community/pages/article/creativity_quiz.php
- Inspiration Software**
<http://www.inspiration.com/>

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