So, you want to change the world? Strategies to Increase Creativity in Agriculture Classrooms

Shannon Norris, Texas A&M University Tiffany Rogers-Randolph, University of Florida



to solving the biggest problems.

3 of 4 Americans

1. William Marin

do not feel like they are living up to their full creative potential...

creativity crisis.



What is creativity?

-Is a process (Torrance, 1995).

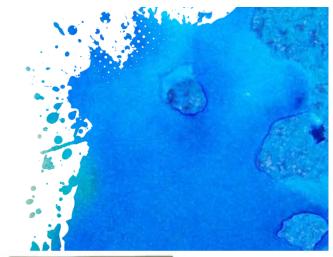
"Creativity defies precise definition...Creativity is almost infinite. It involves every sense – sight, smell, hearing, feeling, taste and even perhaps the extrasensory. Much of it is unseen, nonverbal and unconscious. Therefore, even if we had a precise concept of creativity, I am certain we would have difficulty putting it into words." -- Paul Torrance

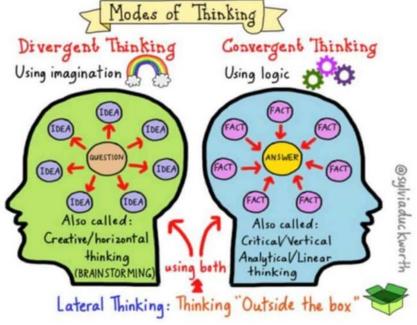


Convergent vs. Divergent Thinking

-Modes of thinking (Guilford, 1956).

- 1. Complexity.
- 2. Curiosity.
- 3. Elaboration.
- 4. Flexibility.
- 5. Fluency.
- 6. Imagination.
- 7. Originality.
- 8. Risk=taking.





Wallas' Five Stages

Preparation

Incubation

Intimidation

Illumination

Verification

- 1. Identify the problem.
- 2. Brainstorm possible solutions.
- 3. Connect solutions with stakeholders.
- 4. Consider additional options.
- 5. Analyze effectiveness of ideas (Wallas, ⁷ 1926).

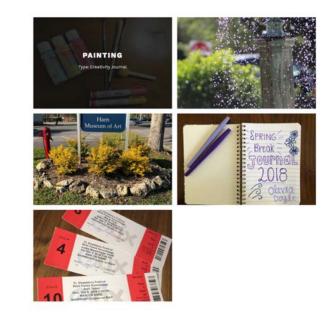
Application to Agriculture

Classroom Implementation

- -Past Research
- -In Practice
 - 1. Polls.
 - 2. Modules.
 - 3. Grading.
 - 4. Longitudinal activities.
 - 5. Feedback and reflection.
 - 6. Modeling expectations.
 - 7. Classroom culture.



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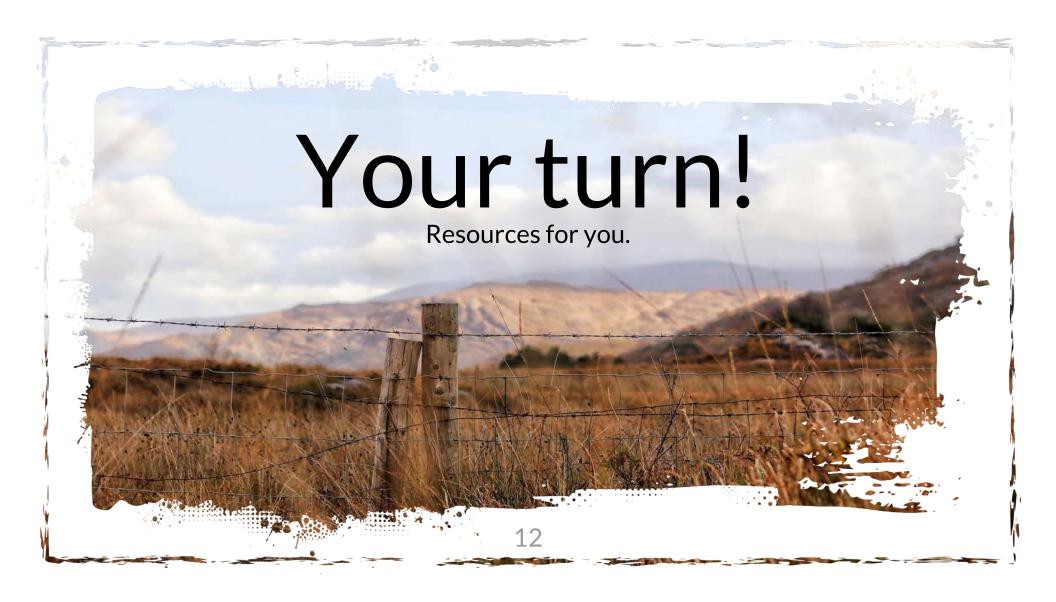


Creative Strategies

Desired Outcome	Teaching Strategy	Authors
Engaged Students	Make connections between content and real life or subject in classroom.	Horng, Hong, ChanLin,Chang, & Chu (2005)
Empowered creativity	Encourage students to think creatively. They need to be reminded they are creative thinkers.	Niu & Lui (2009)
Appropriate creativity	Distinguish different types of creativity. Give boundaries.	Beghetto (2007)
Applicable creativity	Provide specific ways to apply creativity.	Cheng et al. (2006)
Authentic learning opportunities	Evaluate level of creativity by measuring student input with final product.	Walling (2009)

(Adapted from Rinkevich, 2011)

New Workshift



"
"It takes courage to be creative. Just as soon as you have a new idea, you are in a minority of one."

-Paul Torrance

Questions ?

Shannon Norris Texas A&M University <u>shannon.norris@tamu.edu</u>

Tiffany Rogers-Randolph University of Florida <u>tiffanyrogersrandolph@gmail.com</u>



