



CREATIVITY: CONCEPT, FACTORS AND PROCESS - STRATEGIES FOR FOSTERING CREATIVITY



INTRODUCTION TO CREATIVITY

Creative Thinking:

- ⦿ Generating new ideas
- ⦿ Combining concepts in novel ways
- ⦿ Finding unique solutions to problems

Creativity vs. Intelligence:

- ⦿ Independent abilities Highly creative individuals often have high Iqs High IQ does not always indicate creativity

CONCEPT OF CREATIVITY



Meaning of Creativity

Ancient Greek Perspective:

- ◉ No specific word for "create"
- ◉ Used "poiein" (meaning "to make")
- ◉ Creativity seen as divine inspiration

Latin Influence:

- ◉ "Creatio" – Latin word for "creating"
- ◉ Adopted during the rise of Christianity
- ◉ Creativity refers to **a person's ability to think differently or novel, which means originality of ideas, usefulness of the ideas to the society and nation at large.**

DEFINITIONS OF CREATIVITY



- Creativity is the ability to produce work that is both novel (original) and high in quality, effectiveness, or usefulness.

-(Henriksen & Mishra, 2015)

- Creativity is the process of using existing knowledge and personal insight to create something original and meaningful.

-(Henriksen & Mishra, 2015)

THE NATURE OF CREATIVE THINKING



Measuring Creativity:

- ⊙ Various tests developed to assess creativity
- ⊙ Guilford's Study (1967) introduced key concepts.

Two Types of Thinking:

1. Convergent Thinking

- ⊙ Focuses on a specific end result
- ⊙ Uses problem-solving rules to find the correct solution
- ⊙ Often leads to solutions already discovered by others
- ⊙ Not the primary mode of creative thinking



THE NATURE OF CREATIVE THINKING

2. Divergent Thinking:

- ⊙ Involves generating multiple ideas
- ⊙ Encourages varied and novel solutions
- ⊙ Essential for creativity

Role of Other Thinking Styles:

- ⊙ **Autistic Thinking:** Free association of ideas, leading to unexpected insights
- ⊙ **Convergent Thinking:** Used as a foundation for gathering information

Creative Thinking Process:

- ⊙ Combines elements of divergent, autistic, and convergent thinking
- ⊙ Helps generate unique and innovative solutions



FACTORS INFLUENCING CREATIVITY

According to **Amabile & Pillemer**, Creativity arises from the interaction between personal attributes and the surrounding environment.

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FACTORS INFLUENCING CREATIVITY



Individual Factors Influencing Creativity

Key Individual Factors:




1. ☐ **Intelligence** – Necessary but not sufficient for creativity
2. 💡 **Thinking Skills** – Both divergent (generating ideas) and convergent (evaluating ideas) thinking are essential
3. 📖 **Knowledge & Expertise** – A deep understanding of a subject enhances creativity
4. 🧠 **Personality Traits** – Willingness to take risks, perseverance, and self-efficacy foster creativity
5. 🔥 **Intrinsic & Task-Focused Motivation** – Drives creativity, though extrinsic motivation can sometimes help with persistence
6. 💪 **Self-Efficacy / Self-Belief** – Confidence in one's creative ability encourages innovation
7. ✨ Creativity thrives when individuals combine intelligence, skills, motivation, and confidence in their abilities.

FACTORS INFLUENCING CREATIVITY



Social-Environmental Factors Influencing Creativity



Key Social-Environmental Factors:

1.  **Stimulation from People & Materials** Exposure to diverse ideas, experiences, and resources enhances creativity
2.  **Support from Adults, Peers & Culture** Encouragement from mentors, friends, and society fosters creative expression
3.  **Influence of Significant Others** Actions of teachers, parents, and leaders shape intrinsic vs. extrinsic motivation

PROCESS OF CREATIVITY



Graham Wallas' Model of the Creative Process

1.  In **The Art of Thought (1926)**, English social psychologist Graham Wallas described a **five-stage model of creativity**.
 2.  Co-founder of the London School of Economics, Wallas developed his model through interviews and studies of outstanding creative thinkers.
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1. **Preparation**
 2. **Incubation**
 3. **Illumination**
 4. **Evaluation**
 5. **Implementation**

PROCESS OF CREATIVITY



Graham Wallas' Model of the Creative Process

Stage 1 - Preparation (Creative Process)

Key Elements of the Preparation Stage:

Defining the Problem:

- ❖ Initial analysis and understanding of the problem
- ❖ Set the foundation for solution

Gathering & Analyzing Information:

1. Collecting relevant facts and materials
2. Formulating a plan of action

Working & Modifying the Plan:

1. Continuous effort toward solving the problem
2. Adjusting strategies if initial methods or data don't work

PROCESS OF CREATIVITY



Stage 2 - Incubation (Creative Process)

Key Elements of the Incubation Stage:

💡 **Fading of Interfering Ideas:**

- ❖ Distractions and irrelevant thoughts begin to fade away

🌱 **Unconscious Thought Processes:**

- ❖ The mind works subconsciously, processing ideas and clues

🔍 **Experiences as Clues:**

- ❖ The thinker may have encounters that unknowingly provide hints for solving the problem

🎯 **Path to Inspiration/Illumination:**

- ❖ If the thinker is fortunate, this leads to a breakthrough idea or realization

✦ Incubation **allows unconscious processes to work**, often leading to unexpected insights.

PROCESS OF CREATIVITY



Stage 3 - Inspiration or Illumination (Creative Process)

Key Elements of the Incubation Stage:

💡 The “Aha!” Moment:

- ❖ Sudden insight or breakthrough realization

★ Idea Emerges:

- ❖ The solution idea spontaneously rises to consciousness
- ✦ Inspiration strikes unexpectedly, leading to the clarity needed to move forward.

PROCESS OF CREATIVITY



Stage 4 - Evaluation (Creative Process)

Key Elements of the Incubation Stage:

🔍 Testing the Solution:

- ❖ The apparent solution is tested to see if it satisfactorily resolves the problem

✖ Initial Disappointment:

- ❖ Often, the insight turns out to be unsatisfactory, and the thinker returns to earlier stages

🔧 Refinement:

- ❖ Sometimes, the solution works but needs modification or resolution of minor issues to become a "good" idea
- ➡ Evaluation involves critical testing and refinement to transform insights into practical solutions.

PROCESS OF CREATIVITY



Stage 5 - Revision (Creative Process)

Key Elements of the Incubation Stage:

🔍 **Testing the Solution:**

🔄 **Ongoing Modification:**

❖ Creative solutions are not always perfect at first. The process is open for essential modifications and revisions.

⚙️ **Continuous Refinement:**

❖ Even after the solution is found, revisions may be necessary to perfect the idea.

✚ **Creativity is a fluid process that allows for adjustments at any stage to improve the final outcome.**



STRATEGIES FOR FOSTERING CREATIVITY

Promoting Creativity in Education

❖ **The Importance of Creativity:**

🎨 **Creativity in the Arts & Beyond:**

- ❖ Creativity is not limited to the arts; it is essential in all subjects

□ **Triarchic Theory of Intelligence:**

- ❖ Teaching should promote creative thinking to support successful intelligence
- ❖ Creative thinking forms the foundation for achievement in school and life

📖 **Educational Experts Agree:**

- ❖ Teachers should prioritize fostering student creativity as a core instructional goal



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 1 - Create a Sense of Mastery in the Domain

❖ Key Insight from Csikszentmihalyi (1996):

🏆 Mastery of a Domain:

- ❖ Creative individuals first achieve mastery in a specific area of knowledge or skill

💡 Importance of Mastery:

- ❖ Without mastery, divergent thinking is less likely to result in creative outcomes
- ❖ 📌 Mastery provides the foundation for creativity to flourish in any domain.



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 2 - Create a Safe Learning Environment

Key Points for Fostering Creativity:

- Safety for Nonstandard Ideas:
 - ❖ Students must feel safe to share their divergent thoughts and take risks
- **Respect for All Perspectives:**
 - ❖ Foster an environment that values and respects all ideas and viewpoints
- ⊘ **Minimize Evaluation:**
 - ❖ Provide activities where students are not judged or evaluated on their creativity
- 🌐 **Inclusive & Multicultural Approach:**
 - ❖ Particularly important in diverse classrooms to encourage every student's voice



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 3 - Create an Autonomy-Supporting Learning Environment

Key Elements of an Autonomy-Supporting Classroom:

🌱 Encourage Student Choice:

Students are more motivated when given choices and input in their learning

🗣️♂️ Value Student Opinions:

- ❖ Teachers should solicit students' perspectives to make them feel valued

✖️ Avoid Controlling Environments:

- ❖ Controlling classrooms undermine creativity by sending the message that student opinions don't matter
- 📌 A safe and respectful environment encourages creative thinking and risk-taking.

STRATEGIES FOR FOSTERING CREATIVITY



Strategy 4 - Encourage Brainstorming

Key Elements of Brainstorming:

💡 Group Brainstorming:

- ❖ Students share any ideas that come to mind to solve a problem

☐ Benefit of Group Interaction:

- ❖ Exposure to diverse perspectives can enhance creativity

☐ Solitary vs. Group Brainstorming:

- ❖ While individual brainstorming may generate more ideas, group brainstorming fosters idea exchange and collaboration



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 5 - Model Creativity

Key Elements of Modeling Creativity:

👁️👁️ Learning by Observation:

- ❖ Students learn through observing others' creative behaviors (Bandura, 1986)

🎭 Teachers as Role Models:

- ❖ Teachers can demonstrate their own creative skills to inspire students

👤👤 Sharing Creative Examples:

- ❖ Highlight creative behaviors from others in the classroom to reinforce the value of creativity



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 6 - Demonstrate the Value of Creativity

Key Elements of Demonstrating Creativity's Value:

💡 **Model Enthusiasm for Creativity:**

- ❖ Teachers should show excitement and appreciation for creative work

🏆 **Recognize Creative Thinking:**

- ❖ Design classroom activities where students are credited for their creative ideas
- ✚ When teachers demonstrate the value of creativity, it encourages students to value and develop their own creative abilities.



STRATEGIES FOR FOSTERING CREATIVITY

Strategy 7 - Allow Time for Creativity

Key Elements of Demonstrating Creativity's Value:

💡 Model Enthusiasm for Creativity:

☐ Avoid Rushing Creative Processes:

- ❖ Creativity requires time and should not be rushed

☐ Give Students Time to Reflect:

- ❖ Allow time for students to relax, explore their thoughts, and engage with others' ideas