

# ADVANCED LEARNING LABS

Collaboration between NC Department of Public Instruction and AIG Teachers across the state

TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES

2-3

## Creativity



### ENGLISH LANGUAGE ARTS

Stories and poems are examples of creative works. The beauty of these examples is that each reader can picture them differently and can take from them different lessons, messages or feelings. Stories and poems allow for individual responses and interpretations from their readers. It is in this individuality and originality that creativity is found.

Find a short story or poem that you love, and create a multimedia presentation to creatively capture the meaning of the story or poem from your perspective. Here are some ideas to spark your creativity:

- combine the words
- record a voice over
- add music and/or pictures
- create animation or a video relating to the text and what you picture in your mind.



### SOCIAL STUDIES

An entrepreneur is defined as one who organizes, manages and assumes the risks for a business or enterprise. Such responsibility sounds serious and not much fun. So why do people become entrepreneurs? Read about these 12 child entrepreneurs: <https://www.fundera.com/blog/kid-entrepreneurs>

As you read, create a list of the reasons they became entrepreneurs and a list of what inspired their business ideas. In looking at the list and thinking of their stories, what do creativity and entrepreneurship have in common?

Create an analogy connecting the relationship between the two. Creativity is to entrepreneurship as \_\_\_\_\_ is to \_\_\_\_\_. Explain the reasoning behind your analogy.



### SCIENCE

A chain reaction is a series of events that are self-sustaining. Once started, each action sets off the next. Rube Goldberg is famous for his inventions that did just that. Though his inventions were on paper, real working machines have been made.

Watch as the *Guinness Book of World Records* Largest Rube Goldberg Machine lights a Christmas Tree: <https://www.youtube.com/watch?v=RBOqfLVCDv8>

As you watch, write down as many simple machines as you can, and note all the changes in direction utilized. See if you can keep track of all the machines, even some household appliances, being used for a purpose other than for what they were intended.

To read more about Rube Goldberg: <https://www.rubegoldberg.com/>



### MINDFULNESS

A mantra is a word, phrase or sound that helps to keep your mind focused during meditation and to interrupt negativity. Mantras have been around for thousands of years and though very simple, they are incredibly powerful, as they speak to what each individual person needs. Read the article to learn more about and find examples of mantras: <https://www.sonima.com/meditation/mantras/>

Create your own mantra and a beautiful way to display it - a poster, banner, painting, photograph or another creative way to showcase it. Post your mantra where you can see it often and repeat it to yourself daily when needed. Reflect upon its impact on your sense of well-being and focus.



## LOGIC PUZZLE

Create your own Logic Puzzle-Sudoku

Steps:

1. Create the solution by filling in a 9x9 grid, following the rules of Sudoku.
2. Begin removing "mirror pairs." These are the pairs that would touch each other if the grid was folded in half diagonally. For example: Row 1 Cell 1 is a mirrored pair to Row 9 Cell 9.
3. Test your puzzle.
4. Share with others by asking them to solve your puzzle.

Sudoku Rules: [http://www.sudokuessentials.com/sudoku\\_rules.html](http://www.sudokuessentials.com/sudoku_rules.html)



## FIELD STUDIES

What is creativity? It's often hard to put into words. Let's find out in real talk.

Ask at least 10 people the following questions:

- How do you define creativity?
- What elements or characteristics are necessary parts of creativity?
- How can one show creativity?

After surveying ten people, look at your data and sort/categorize the answers.

Do you notice common definitions of creativity? Are there certain elements or characteristics of creativity that show up consistently? Or ways people can show creativity?

Using the information you gained from the 10 people, construct your own definition of creativity.



## RESEARCH EXPLORATIONS

*"With age, comes wisdom."* This famous quote from Oscar Wilde might be true, but science tells us that children are naturally creative geniuses. In a study by NASA, 98% of children tested for creativity scored in the "Genius Level." As they aged, their scores decreased. Read more about this research here: <https://twentyonetoys.com/blogs/teaching-21st-century-skills/creative-genius-divergent-thinking>

Using information from this article, create a schedule of activities for practicing creativity for yourself and one for your parents to practice being creative. Read for tips to use with your parents: <https://www.inc.com/rohini-venkatraman/4-ways-to-get-back-creativity-you-had-as-a-kid.html> Share your findings and schedules with your family.



## MATH

Geometric shapes are used to create art and design. Triangles are used in bridge design, circles are used for wheels, and rectangles are used in windows and doors.

Now it's your turn to get creative. Choose a shape to feature in a "Top Ten Uses For" list. Use your imagination and think outside the box. Be sure to include illustrations or pictures, and explanations where necessary. Share with classmates and family members.

Challenge: What are some creative and unusual ways you could use 2D or 3D shapes?



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**PUBLIC INSTRUCTION**



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## Creativity Reference Guide

### **K-1 Logic Puzzle:**

Solution 4 cubes high = 10

6 cubes high = 21

8 cubes high = 36

### **2-3 Logic Puzzle:**

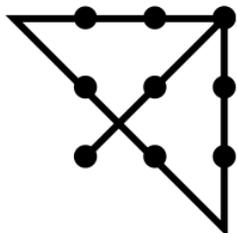
How to Create Your Own Sudoku: <http://www.sudokuessentials.com/create-sudoku.html>

### **4-5 Logic Puzzle:**

Developing Your Own Logic Grid Puzzle:

<https://www.thesprucecrafts.com/how-to-make-solve-logic-puzzle-2809337>

### **6-7 Logic Puzzle:**



### **8-9 Logic Puzzle:**

Solution to Lateral Thinking puzzle: She was returning an overdue library book.

<https://puzzles9.com/18-challenging-lateral-thinking-questions-and-answers/>

### **10-12 Logic Puzzle:**

Solution: start, finish, F, C, G, start, C, B, A, D, F, E, A, finish.

<https://www.mathsisfun.com/puzzles/path-plodding-puzzle-solution.html>

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## Creativity NC Standards Alignment

Grade Span	English/ Language Arts	Social Studies	Science	Math
<b>K-1</b>	RL.1.4	1.H.1.3	1.E.2.1	NC.1.G.2
<b>2-3</b>	SL.3.5	3.E.2.1 3.I.1.10 3.E.1.1	3.P.1.1	NC.2.G.1
<b>4-5</b>	W.5.3	5.C&G.1.1 5.I.1.7 5.I.1.8 5.I.1.9 5.B.1.2	5.P.1.1	NC.4.MD.6
<b>6-7</b>	W.6.3	6.H.1.3	6.E.2.4	NC.7.SP.7
<b>8-9</b>	RL.8.7	8.H.3.2 8.H.3.3	EEn.2.2.2	NC.M2.A.SSE.1
<b>10-12</b>	W.11-12.3	USH.H.3.4 B.CX.1.3	Bio.2.2.2 ITSE 4a	NC.M3.A-APR.3