

ADVANCED LEARNING LABS

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

TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES
10-12

Creativity



ENGLISH LANGUAGE ARTS

Think of a heartbreak you have experienced.

Write a short story about this experience through creative writing. Use your imagination and emotions to tell your intriguing story. The story should include:

- the key elements: character, setting, conflict, plot and theme
- the underlying theme of heartbreak
- visual descriptions
- an empowering ending

Follow up by developing a playlist to compliment your story. Select 5-7 songs (that are appropriate for school) to take your readers through the emotions felt in your story. You can use Spotify, Apple Music, Youtube, or go old school and create a CD.

Share your story with your teachers and classmates. If you would like to share your playlist, include the link.



SOCIAL STUDIES

Your family tree is your history, telling the story of how your family came to be. Do you have an old family album somewhere or a box full of pictures?

Using the photos, create your own family tree. Place pictures of your immediate family around your photo and then add pictures of extended family. Once it's finished, share the visual with your family.

Talk with a family member and reflect on your tree. What makes your family history unique or interesting? Do you have family who migrated from another country to achieve the American Dream? Do you have family members who fought in a historical war?

Using what you now know about your family's history, design a new visual representation of your family tree. For some creative ideas, visit this site: <https://www.youtube.com/watch?v=tYsuGplUJcY>



SCIENCE

Scientists do more than just work in a lab. They also use their scientific minds to create new and innovative ideas. Introducing the Futurecraft.Loop™ by Adidas. Learn about how the recyclable shoe was designed to eliminate the use of plastic for a more sustainable future: <https://www.adidas.com/us/futurecraft>

For tips on how we all can join the fight to create a more sustainable future, visit this link: <https://www.greendotbioplastics.com/6-tips-to-make-your-products-more-sustainable/>

Design a poster for a future product that can be recycled and/or reused. Some products already created are straws, phone cases, and solid shampoo bars. Explain how the product benefits Earth and its natural resources. Include on the poster the name and picture of the product, materials used to create it, and how it will impact the environment. Share your poster with your teacher and classmates.



MINDFULNESS

When we find things we are grateful for, we develop a more positive attitude. Some days may be harder than others, and that's okay. A fun way to find these items is with a Gratitude Scavenger Hunt. Read more about it here: <https://bit.ly/2WMB9E2>

Let's practice by finding:

- something outside you enjoy looking at
- something someone else would enjoy
- something that makes you happy
- something that makes you feel safe
- something that make you laugh

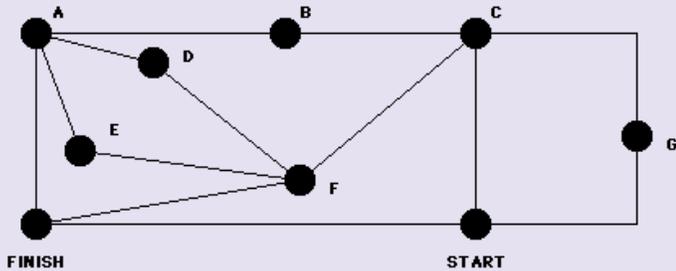
Dedicate one day of the week to each item and journal the reasons why you chose it. Store your journal somewhere close, for easy access.

For those days you are feeling stressed or overwhelmed, reflect on your reasons of gratitude.



LOGIC PUZZLE

The idea is to plod your way along all the streets on this map without going down a street you've been down before. Starting and finishing in the places indicated, in what order would you visit the letters on the map? Did you find more than one route?



FIELD STUDIES

Have you ever wanted to live abroad, like in Mongolia, Brazil or the Netherlands? What about another city in the United States, like Charlotte or Las Vegas? 360Cities designed a creative way to view cities all over the world. Type your city in the search box and explore the city views: <https://www.360cities.net/>

Let's consider two different cities in which you would like to live and work. Compare and contrast them in the following areas: <https://www.city-data.com/>

- Population and size
- Job market
- Cost of living (rent/mortgage, utilities, taxes)
- Climate
- 360 view of each city (places to explore)
- Educational opportunities
- Entertainment (things to do)

Which city has the most potential for you? Why?



RESEARCH EXPLORATIONS

There are many jobs that require a creative mind. Read the information about careers for creative workers: <https://www.bls.gov/careeroutlook/2015/article/creative-careers.htm>

Find 3 potential careers that fit your creative mind. Research additional information using the US Labor of Statistics website: <https://www.bls.gov/ooh/>.

1. What type of education is required?
2. How could you incorporate creativity in work?
3. What developments could affect your future opportunities (technology, resources)?
4. What are the major companies or industries in these fields?
5. Where do you see yourself 5-10 years into your career?

Keep a running record of your career interests as they may often change.



MATH

Mnemonic devices are creative techniques used across many disciplines to better encode and recall important information, like mathematical formulas. Math teachers create them to aid students in memorizing formulas. The most commonly used math mnemonic is PEMDAS - Please Excuse My Dear Aunt Sally - to remember the order of operations.

Create your own mnemonic devices using the 9 types provided by UCF. Select three techniques and explain how to apply it to a math problem. https://sarconline.sdes.ucf.edu/wp-content/uploads/sites/19/2017/07/9_Types_of_Mnemonics_NF1.pdf

Share your mnemonic devices with your teachers and classmates.



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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:

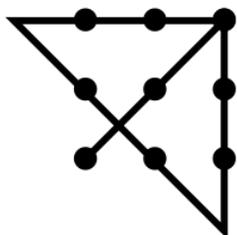
How to Create Your Own Sudoku: <http://www.sudokuessentials.com/create-sudoku.html>

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
K-1	RL.1.4	1.H.1.3	1.E.2.1	NC.1.G.2
2-3	SL.3.5	3.E.2.1 3.I.1.10 3.E.1.1	3.P.1.1	NC.2.G.1
4-5	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
6-7	W.6.3	6.H.1.3	6.E.2.4	NC.7.SP.7
8-9	RL.8.7	8.H.3.2 8.H.3.3	EEn.2.2.2	NC.M2.A.SSE.1
10-12	W.11-12.3	USH.H.3.4 B.CX.1.3	Bio.2.2.2 ITSE 4a	NC.M3.A-APR.3