

ADVANCED LEARNING LABS

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

TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES

4-5

Identity



ENGLISH LANGUAGE ARTS

The characters in literature have identities from which we learn more about the world, others, and ourselves. Choose two characters from a novel you are reading, or from two different stories. It's up to you.

Craft a diamante poem, comparing and contrasting the characters' identities. Diamante poems have a distinct format which lends itself for comparing and contrasting. Use this site as a resource: <http://www.readwritethink.org/classroom-resources/student-interactives/diamante-poems-30053.html>

Be sure to include details from the text that are explicitly and implicitly stated about the characters' identities, such as who they are, what they value, and what they do. Include a visual symbol for each character based on what you feel their identity represents. Share your poem and symbols with others.



SOCIAL STUDIES

Research buildings, statues, monuments and places that are associated with North Carolina history using this site: <https://www.ncpedia.org/exploring-north-carolina-historic>

Discuss these questions with your friends or family:

- How do these things contribute to the identity of the state?
- Why is the history of these people and places important to the past and future of North Carolina?

Think about your own identity and create a map of you and your history. Include important buildings, monuments (your achievements), statues (important people in your life) and places/names that are part of your history and who you are.

Share with your family. Discuss the concept of identity. What would they add to your map?



SCIENCE

How do you identify rocks?

- Metamorphic - molten rock that has cooled and solidified
- Sedimentary - rock fragments compressed in layers, and hardened
- Igneous - rock changed by heat, pressure, or chemicals

Create a "Rock Recipe" book that includes labeling the rock creations along with the ingredients used and the recipe. The rocks could be edible or non-edible. Think of materials you could put together to create the various types of rocks such as pressing play dough together, melting crayons, layering chocolate and cookie crumbs, etc.

Share your creations with a friend or family member to teach them about these three types of rocks.



MINDFULNESS

Your identity is simple in that it's all the things that make you who you are. However, it's complicated in that others often try to define who you are by what they see on the outside and through their own perceptions.

Draw a self-portrait - from head to toe. Fill the inside of your self-portrait with words or symbols relating to how you identify yourself - all those things that others may or may not see, but that you feel are an important part of who you are.

Fill the background space with pictures and/or words relating to what others see and how they identify you. Ask a friend or family member to help with this. Discuss the information inside and outside the self-portrait - your identity.



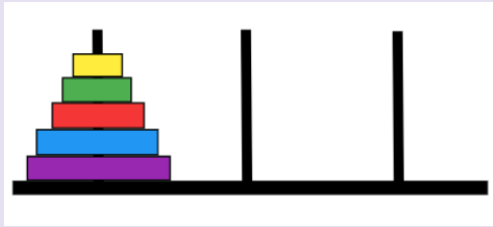
LOGIC PUZZLE

Tower of Hanoi

Move each of the five rings from the first peg to the last peg, in the fewest number of moves.

Once you identify a pattern to solving, try adding more rings.

One rule: You cannot put a larger peg on top of a smaller peg. To play virtually: https://www.mathplayground.com/logic_tower_of_hanoi.html



FIELD STUDIES

The identity of a group of people as a whole can be seen through art. Visit The British Museum's Museum of the World: <https://britishmuseum.withgoogle.com/>

Go forward and back in time to visit art pieces from museums all over the world. See how the art pieces relate to the different histories, stories and identities of groups of people, but also show how those identities and histories are connected.

Find two pieces of art that interest you from two different time periods. Research who created each piece and how their art relates to who they are, or their identity during the different time periods. How is the art similar? How is the art different?

What impact do histories, stories, and group identities have on the artwork each generation has enjoyed? What does contemporary art show about who we are as a collective group of people?



RESEARCH EXPLORATIONS

Frozen Fractals All Around!

Snowflakes are one example of a pattern of repeating and copying its own identity into smaller and smaller pieces, infinitely.

Research fractals in nature and go for a nature walk to hunt for examples. Research fractals in nature: <https://bit.ly/3hosboA>

Fractals can also be found in art. Research fractals in art: <https://fractalfoundation.org/fractalballoons/>

Listen to music said to have fractals and see if you can hear the pattern repeat itself. They can be heard in the music of some classical musicians, such as Mozart and Bach. Research fractals in music: <https://bit.ly/39ivN8G>

Create some fractal art of your own to share with family and friends.



MATH

A fractal is a self-similar structure that repeats itself and it gets smaller, infinitely! The Sierpinski Triangle is one such fractal. This can also be done with a square, as shown below in Sierpinski's carpet.



How would it look if you used non-equilateral shapes? Experiment with other shapes and sizes. Try making them three dimensional (3D) instead of only two dimensional (2D). Notice what happens to the space in the middle of the 3D shape.

Discover more about Sierpinski's Carpet: <https://tasks.illustrativemathematics.org/content-standards/tasks/1523>



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K-12

Identity Reference Guide

2-3 and 4-5 Logic Puzzles:

Tower of Hanoi puzzles

https://www.mathplayground.com/logic_tower_of_hanoi.html

6-7 Logic Puzzle:

Solution available during Ted Talk:

https://www.ted.com/talks/alex_gendler_can_you_solve_the_three_gods_riddle/transcript?language=en#t-38386

10-12 Logic Puzzle:

Solution: The letter X

Solution: A tow truck

Solution: Corn

Solution: A rhyme

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Identity NC Standards Alignment

Grade Span	English/ Language Arts	Social Studies	Science	Math
K-1	RL.1.3 RL.1.7	K.C.1.1	K.P.2.1	NC.1.OA.6 NC.2.OA.2
2-3	RL.3.3	3.G.1.5 3.G.1.2	2.P.2.1	NC.2.G.1
4-5	RL.5.3	4.H.2.2 4.H.1.6	4.P.2.3	NC.4.G.2
6-7	W.6.3	6.C.1.1	7.L.2.2	NC.6.EE.6 NC.7.EE.3
8-9	W.7.2	8.H.1.3	8.L.2.1	NC.M2.A-REI.4
10-12	RI.11-12.7	FPC&G.4	BIO.3.3.3	NC.M3.N-CN.9