

# ADVANCED LEARNING LABS

Collaboration between NC Department of Public Instruction and AIG Teachers across the state  
TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES

6-7

## Identity



### ENGLISH LANGUAGE ARTS

Who is the real you? If someone asked you this, what would you say?

Write a personal narrative that develops experiences or events that can be used to tell your story. Be sure to use relevant descriptive details and narrative techniques, such as dialogue, pacing, and description to develop experiences, events, and/or characters.

Share your final piece with someone to help them know the 'real you.'



### SOCIAL STUDIES

Identity is the combination of the qualities, beliefs, personality, personal characteristics, and/or expressions that make a person who s/he is. Cultural influences also contribute to identity.

Think about the oral traditions, art, dance, music, literature, and architecture that make up your culture. What has influenced where you have grown up or now live? If you are unsure, ask family members or long-time citizens of your area.

Once you have created a list of these influences, design an artistic way to present them.



### SCIENCE

An organism's genotype is the set of genes in its DNA responsible for a particular trait. An organism's phenotype is the physical expression of those genes. Your genotype and phenotype are a part of your identity.

Watch the video, at the link below, to learn about how to use a Punnett Square to figure out the probability of genotypes and phenotypes. On paper or in your science notebook, complete the four examples as the video explains them. You can pause the video to complete each Punnett Square on your own before it shows the answer: <https://youtu.be/agQpPPQ5IVQ>

Create a monohybrid problem of your own. For a challenge, also create an original dihybrid problem.



### MINDFULNESS

What qualities make up who you truly are? What ideas, traits, or qualities come to mind when you reflect on the concept of "self?" What are the activities that you think of when you think about who you are?

Use a blank canvas, poster board or PowerPoint slide to create a collage of you. Find magazine pictures or internet images that represent you. Draw pictures, find stickers or use words to fill the blank space of the canvas. Be sure everything placed on the canvas describes who you are.

Why is it important to know your own identity? Keep your collage in a place that will remind you to always remember who you are.



## LOGIC PUZZLE

Are you ready for the hardest logic puzzle ever?

The Hardest Logic Puzzle Ever, as deemed by American philosopher and logician George Boolos and published in The Harvard Review of Philosophy in 1996, is about finding the identity of three aliens. You and your team have crash landed on an ancient planet. You must identify the aliens in order to return to your home planet. You may only ask three “yes or no” questions.

Watch the video for more details. Be sure to pause at 3:35 to figure out the solution: [https://www.ted.com/talks/alex\\_gendler\\_can\\_you\\_solve\\_the\\_three\\_gods\\_riddle/transcript?language=en#t-38386](https://www.ted.com/talks/alex_gendler_can_you_solve_the_three_gods_riddle/transcript?language=en#t-38386)



## FIELD STUDIES

Sometimes in elementary school, there are art projects where you traced your hand or face so that you can capture what you looked like when you are young. Creating memories of your physical identity as an older student can be fun, also.

Read about how to create a life mask, how to trace your face, and how to take self-portraits. After you finish studying the three techniques, use one technique to complete your self-portrait.

Life Mask: <http://librarycompany.org/artifacts/masks.htm>

Trace Your Face: <https://pnc.co/2CEjho3>

Self-Portrait Technique: <https://www.canva.com/learn/10-creative-self-portraits-techniques-will-inspire-create/>



## RESEARCH EXPLORATIONS

Eyewitnesses are often used in criminal cases. How reliable are these identifications? Read about the reliability of eyewitnesses in identifying criminals at the link: [https://www.eurekalert.org/pub\\_releases/2015-12/uoc--cca121715.php](https://www.eurekalert.org/pub_releases/2015-12/uoc--cca121715.php)

Create an experiment that will allow you to collect data on the reliability of eyewitness identification. If you need help creating the experiment visit this link: [https://www.sciencebuddies.org/science-fair-projects/project-ideas/HumBeh\\_p015/human-behavior/testing-for-bias-in-a-photo-lineup#procedure](https://www.sciencebuddies.org/science-fair-projects/project-ideas/HumBeh_p015/human-behavior/testing-for-bias-in-a-photo-lineup#procedure)

Use your data to write a letter to your local district attorney critiquing the accuracy of eyewitness identification.



## MATH

In algebra, identity equations are equations that are true for all values of the variable.  $3x + 4 = 10$  is not an identity because it has only one solution. Two is the only number that can replace  $x$  and allow the equation to remain true.

- What would need to be true for an equation to have infinitely many solutions?
- Write five identity equations.
- Explain how you know they are infinite solutions.

Create a real-life situation that can be modeled with an identity equation.



North Carolina Department of  
**PUBLIC INSTRUCTION**



# ADVANCED LEARNING LABS

Collaboration between NC Department of Public Instruction and AIG Teachers across the state  
TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

---

GRADES

**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](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](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

# ADVANCED LEARNING LABS

Collaboration between NC Department of Public Instruction and AIG Teachers across the state  
TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES  
**K-12**

## Identity NC Standards Alignment

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