

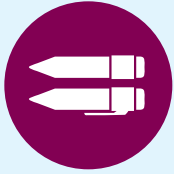
# ADVANCED LEARNING LABS

A partnership between the North Carolina Department of Public Instruction and Duke TIP  
TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES

4-5

## Lab 1 • Change



### ELA

An acrostic poem is a poem where certain letters in each line spell out a word or phrase. Typically, the first letters of each line are used to spell a message.

Choose a character from your favorite fiction book. Create an acrostic poem using the character's name to explain the setting of the story, what motivated or changed that character throughout the story, and details about the character's actions. See the link below for an example.

**Link:** <http://poetry4kids.com/lessons/how-to-write-an-acrostic-poem>



### SOCIAL STUDIES

Mount Rushmore, built 1927–1941, features the faces of four great American leaders. Your task is to design a new monument, choosing the historical figures who are models of American democracy.

Prepare a detailed drawing of your monument, name the Americans you will include, and design a memorial plaque with inscription to describe why you have chosen to include these Americans.

**Link:** [nps.gov/moru/learn/historyculture/why-these-four-presidents.htm](https://nps.gov/moru/learn/historyculture/why-these-four-presidents.htm)



### SCIENCE

In these times with people staying home there are many changes. Deer are exploring and walking into areas they normally don't go because fewer people are there. Additionally, more people are starting gardens.

How do these two phenomena impact each other?

What will be the impact once people begin moving around more?

Have a discussion about this topic with a friend or family member.



### MINDFULNESS

Create a sound map!

On a piece of paper, mark the center of it with a picture of something that represents you. Find a spot where you can sit comfortably. Close your eyes. Quietly focus on what you hear around you for 5 minutes. Draw, write, or color the sounds you can hear on the paper and where they are coming from. Create a sound map at a new location each day this week.

**Link:** [sensorytrust.org.uk/information/creative-activities/sound-maps.htm](https://sensorytrust.org.uk/information/creative-activities/sound-maps.htm)



## LOGIC PUZZLE

Quotable Cryptograms:

Solve these cryptograms to decipher these quotes from famous people in history.

Link: <https://tinyurl.com/ycqcm4g>



## FIELD STUDIES

Let's get dirty! Watch this video to learn about soil and why it is so important.

Link: <https://vimeo.com/77792712>

After watching, describe what soil means to each of these living things:

- Earthworms
- Farmers
- Children
- Engineers
- Home builders

What is one specific change you would suggest to make the soil near you (in your backyard or nearby park) healthier?



## RESEARCH EXPLORATIONS

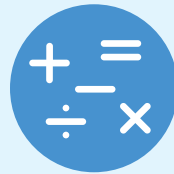
People are different heights and weights and have different physical abilities.

Hop for 30 seconds and record how many times you hop. Have 4 friends or family members hop for 30 seconds each.

Create a bar graph to show how many times each person hopped.

Why do you think the person who hopped the greatest number of times was able to do so?

What could you change to increase your hopping ability in the next month?



## MATH

Create a superhero story problem. Trapezium is your villain.

Choose another quadrilateral— Parallelogram, Rectangle, Rhombus, Square—as your hero.

Use properties of quadrilaterals' sides, angles, and diagonals to give readers six (or more) clues about your hero and villain.

Have someone read your finished problem. Did they solve it? Which clues were helpful? Which made the puzzle too easy or hard?



North Carolina Department of  
PUBLIC INSTRUCTION

