

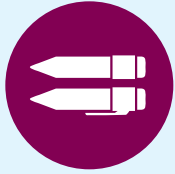
# ADVANCED LEARNING LABS

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

GRADES

2-3

## Lab 7 • Interactions



### ENGLISH LANGUAGE ARTS

“Sliding Door Moments” are seemingly inconsequential moments or interactions that end up having a much bigger impact than anticipated. For example, you choose one park to play in over another, and you end up meeting your new best friend at that park.

Illustrate two different seven-panel storyboards with the same beginning panel(s). Have the main character make a different decision at the “sliding door moment” and conclude each storyboard with a different ending.



### SOCIAL STUDIES

North Carolina has three distinct geographic regions: the coastal region, the piedmont region, and the mountains. People have to interact with their environment to be able to settle and live in an area.

Create a cartoon strip that illustrates how people interact with their regions. Write a two or three sentence caption for each cartoon illustration.

Use the following link as a resource on the three regions.

Link: [https://www.sosnc.gov/divisions/publications/kids\\_page\\_geography](https://www.sosnc.gov/divisions/publications/kids_page_geography)



### SCIENCE

Baking can be very similar to a science experiment! You have to monitor and adjust your ingredients based on how they may react while cooking. Cake batter recipes often include water or milk.

Explain what happens to the liquid when you bake the cake. Where did it go? Is it possible to cool the cake down and get the liquid back? Why or why not?

How could you test your prediction?



### MINDFULNESS

Because our interactions with others have been limited, spend some time this week thinking of ways that you can interact with others while continuing to abide by the rules in place.

A few examples might be:

- Write a letter to a loved one and mail it to them.
- Color a picture for a neighbor and place it in that person’s mailbox with a friendly note.
- Make an effort to be kind to the people with whom you live (ex: tell your sister that you like her hair, thank your mom for making dinner, offer to let your brother play with your toy, etc.).



## LOGIC PUZZLE

Polybius Square Cipher!

A Polybius Square was a method of encryption invented by the Ancient Greek historian Polybius.

See if you can uncover the hidden quote!

Link: <https://bit.ly/3cbhGSg>



## FIELD STUDIES

Historians and archaeologists work every day, so that we can interact with people of the past. Watch this video that explains what archaeology is:

Link: <https://www.youtube.com/watch?v=qMzpA5oCGNY>

Next, watch a short clip that explains how an archaeologist conducts a dig on a site: <https://www.youtube.com/watch?v=PcT1vGyJzyg>

What do you think we can learn about people from the past during a site excavation? Why do you think it's important to learn about people from the past?



## RESEARCH EXPLORATIONS

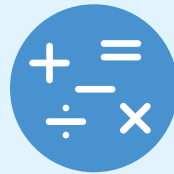
Sociologists study how people interact in groups. Click on this link to learn more about sociology.

Link: <https://kids.britannica.com/kids/article/sociology/433123>

How each person behaves can change how the group interacts. Each day for the next five days, perform a random act of kindness for someone in your home.

Observe how they interact with you after the random act of kindness and record it (with pictures or words).

After you changed your behavior by performing a random act of kindness for five days, did the family interactions change at all? If so, how?



## MATH

A fractal is an object made of smaller versions of itself - a pattern within a pattern. Interactions with nature reveal many fractals - snowflakes, lightning bolts, leaves, and more. Walk with an adult to collect leaves. Choose 1 leaf. Measure 4 fractal levels: stem, large veins branching off the stem, medium veins branching off the large, small veins branching off the medium. Order the measurements using  $>$ ,  $<$ , or  $=$ . Using fractions, describe how the level lengths compare. Using your measurements, draw the leaf showing all 4 levels. Repeat with another leaf. How do your measurements compare? What do you observe about leaf fractals?

Source: <http://mathengaged.org/resources/activities/art-projects/fractal-leaf-art/>



North Carolina Department of  
PUBLIC INSTRUCTION



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### Works Cited and Answers

#### **Works Cited- Math:**

2-3 and 4-5 activity based on Fractal Leaf Art from Math Engaged -  
<http://mathengaged.org/resources/activities/art-projects/fractal-leaf-art/>

#### **Field Studies:**

For more information about the future of spaceflight, read “Future of Spaceflight and NASA Missions Information” <https://www.nationalgeographic.com/science/space/space-exploration/future-spaceflight/>

#### **English Language Arts:**

- 8-9 May serve as mentor texts:
- “Did I Miss Anything?” by T. Wayman
  - A&P by J. Updike

#### **Logic Puzzle**

6-9 Solution: <https://bit.ly/2ZuCpht>

#### **Advanced Learning Lab 7**

NC Standards Alignment

Math	
K-1	N/A for Lab 7
2-3	NC.2.MD.1, NC.2.MD.4; NC.3.MD.2, NC.3.NF.4
4-5	NC.4.NF.2, NC.4.NF.3, NC.5.NF.1, NC.5.NF.4
6-7	NC.6.RP.1
8-9	Not aligned to a specific NCSCOS standard
10-12	N/A for Lab 7
English Language Arts	
K-1	N/A for Lab 7
2-3	W.3.3
4-5	W.5.3
6-7	W.7.2.c.
8-9	W.9-10.3d W.9-10.3e
10-12	N/A for Lab 7
Science	
K-1	N/A for Lab 7
2-3	3.P.2
4-5	5.P.3
6-7	6.P.2, 6.P.2.2
8-9	8.P.1
10-12	N/A for Lab 7
Social Studies	
K-1	N/A for Lab 7
2-3	3.G.1.3
4-5	5.C.1.2
6-7	7.H.2.3
8-9	8.C&G.1.1
10-12	N/A for Lab 7