

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 5 • Responsibility



ENGLISH LANGUAGE ARTS

What does “responsibility” mean to you? Write down 4-5 sentences about responsibility, thinking about how it changes based on context, such as community or relationship.

Next, write down at least 8 words that relate to responsibility and use those words to form a word search or a crossword puzzle with clues around the theme of responsibility.

See if your family/friends can solve the puzzle. Discuss each of the words after the puzzle is complete. How do each of you view each word and how it relates to the concept of responsibility?



SOCIAL STUDIES

Visit the Link to learn more about the North Carolina Coastal Habitat Protection Plan.

Link: <http://portal.ncdenr.org/web/mf/habitat/CHPP>

The plan was created to address the natural and human causes of erosion and damage to the coast.

Create a 1-minute, informative commercial for the public to explain why this plan matters. In your commercial explain why the plan was created and why every citizen is responsible to help with the plan and environment. Include facts from the North Carolina Habitat Protection Plan.



SCIENCE

Identify a downhill space outside where rainwater runoff flows, such as near a storm drain or a slope in your yard.

Describe the plants that are already there and identify any evidence you have on how effective they are at helping the water be absorbed into the ground.

Create a design that could make the area a better rain garden and point out the purpose of your additions. How would you explain the positive impact of these additions to an adult responsible for the area? Practice your explanation with an adult.



MINDFULNESS

Everyone is responsible for taking care of themselves. Caring for yourself can mean many different things, such as: eating good food, listening to favorite music, spending time with a loved one, or exercising. Taking time to care for yourself helps you manage your stress and refocus on positivity.

This week, document with a picture (camera or drawing) one thing each day that shows how you are taking care of yourself. At the end of the week, use your pictures to create a self-care photo story. Write a caption (description) for each picture that describes what you did and how it made you feel.



LOGIC PUZZLE

Use number logic to reveal the hidden picture by turning numbers into an image.

Follow the link: <https://bit.ly/2zGf01K>

For more information about nonograms, visit: https://puzzlygame.com/pages/how_to_play_nonograms/



FIELD STUDIES

United States of America astronauts feel a responsibility to explore the universe so they may better help the people on Earth.

View the video of the astronauts who manned the Space Shuttle Discovery over 30 years ago.

Link: <https://artsandculture.google.com/asset/the-space-shuttle-discovery-in-360/9QHuv5NkWRYRaw>

As you watch the video, write down what you notice, what is exciting, and what you wonder about the space shuttle. What would you change if you were an astronaut with today's technology?



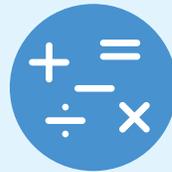
RESEARCH EXPLORATIONS

Ecologists are scientists who study the relationships between living organisms, including humans, and their habitats.

Choose an animal that lives in the wild and research its needs for water. For example:

- What is its habitat?
- What water does that habitat require?
- How much water does it drink?
- What are the potential water issues the animal faces (for example, pollution, drought, predators)?

Next, think about how humans affect the water that it needs. Create an informative and persuasive presentation about the animal, its needs, and at least 3 responsible changes your family could make to help protect the water it needs.



MATH

According to Why Is Art Expensive?, meaning, quality, rarity, and uniqueness influence art's value. Using the 4 factors, create a value equation. Example: $(M \times Q) + (R \times U) = V$. Using math concepts, draw 5 "math-terpieces." Responsibly rate your pieces, giving each a value of 1 (lowest) to 5 (highest) for each factor. Using your values, solve your equation. (Remember order of operations.)

Which piece is most valuable? Do you agree? Should you change your equation? Ask someone to create a new equation. Recalculate. Compare results. Which ratings changed? Why? How could you use value to determine prices?

Link: <https://www.wonderopolis.org/wonder/why-is-art-expensive>



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PUBLIC INSTRUCTION



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K-12

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Works Cited and Answers

Works Cited:

4-5: why is Art Expensive? <https://www.wonderopolis.org/wonder/why-is-art-expensive>

6-7: Why is Art so Expensive: <https://www.cnbc.com/video/2017/11/02/what-makes-art-so-expensive.html>

8-9: Supply and Demand: <https://youtu.be/7xSaL0xvrcA>;

The Paradox of Value: <https://youtu.be/e7S8jWh6AEs>;

Graphing Stories: <http://www.graphingstories.com/>

10-12: If I had a Million Dollars song: https://www.youtube.com/watch?v=B4L3ls_6UYg