

# MONUMENTAL IDEAS

Exploring the Martin Luther King, Jr. Memorial and Lincoln Memorial



» Introduction

» Kinder-2nd

» 3rd-5th

» 6th-8th

» 9th-12th

» Resources



# INTRODUCTION

Produced by CyArk in partnership with the National Park Service, the digital experience allows students to virtually visit monuments on the National Mall and utilizing tools in the virtual environment, engage in STEAM based exploration of the sites. Accompanying lesson plans provide guidance on utilizing 'America's Front Yard' as a launching point for STEAM education in the classroom.

These lesson ideas are meant to ignite a spark in educators and students. Use these starters as a launchpad to learn more about the National Mall and other outdoor spaces within the National Parks. Share your work on Social Media #MonumentalIdeas

[www.expeditionsineducation.org](http://www.expeditionsineducation.org)

[Links to Concept Maps for Content and Grade Levels!](#)

Dive into the immersion: <https://cyark.org/monumentalIdeas/game>



Camera



Mini Model



Coordinate  
Grid



Magnifying  
Glass



Measuring  
Tape

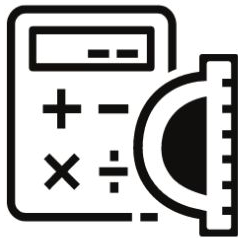


Reference



# Monumental Ideas for 3rd-5th

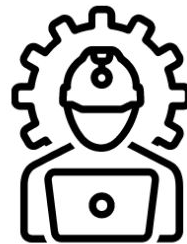
## MATH



## SCIENCE



## ENGINEERING



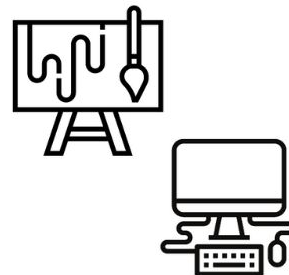
## HISTORY



## LITERACY



## ART & TECHNOLOGY





# MATH



## Coordinate Grids and Scale Models

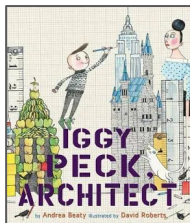
**CyArk Coordinate Grid:** The Coordinate Grid will allow students to have a standard unit and grid for taking measurements of the monument.

**Camera Tool:** The camera tool allows the student to take photographs throughout the site, that they can use for their scale model.

### Vocabulary:

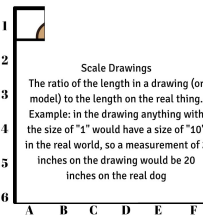
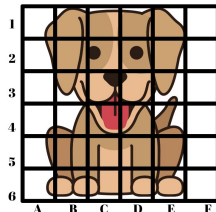
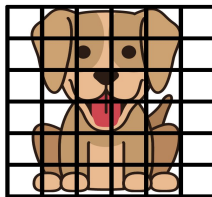
axis  
congruent  
coordinate grid  
corresponding angles  
corresponding sides  
scale model  
similar figures

**Read:**



Author: Andrea Beaty  
Illustrator: David Roberts

**View:**



**Teacher Talk:** Architects and Builders use scale model drawings to begin their construction of large monuments.

**Questions:** Why do architects build scale models? Why is scale important? What happened to the Lincoln Statue that required it to be rebuilt? What tools are used to build scale models?

**Task:** Build a scale drawing of the monuments. Students will use the coordinate grid to place over the monument and then snap a photo of the grid using the camera tool. By importing the photo into Google Draw- students can label the grid and then begin a scale model drawing of the monument. Be creative! Students can enlarge the scale drawing by using one sheet of paper for each square in the grid drawing.

**Assessment:** Have students analyze their photo, their coordinate grid, and their scale model. Ask them to explain what they see. Is their creation realistic?





# SCIENCE



## Life Science: Biomimicry Designs

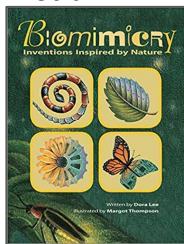
**CyArk Camera:** The Camera tool will allow students to capture photos of the living things around the monument.

**Magnifying Glass:** The Magnifying Glass tool will allow students to observe nature and the juxtaposition of the monuments to nature.

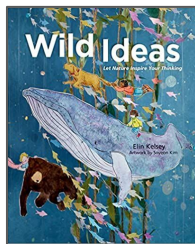
### Vocabulary:

abiotic  
adaptation  
biotic  
biodiversity  
biomimicry  
ecosystem  
evolution  
nature  
niche  
symbiosis

### Read:



Author: Dora Lee



Author: Elin Kelsey

### Watch:

[Biomimicry Design Challenge](#)

### Resources:

[Nine Incredible Buildings](#)  
[Nature-Inspired Solutions](#)  
[Ask Nature](#)

**Teacher Talk:** Architects use plants to compliment structures and provide green spaces for people to enjoy. They also use biomimicry (ideas from nature) as inspiration for their designs.

**Questions:** How do architects use water, energy, and nature to enhance monuments? What types of biomimicry were used in the development of Lincoln and MLK?

**Task:** After observing the virtual spaces of the monuments, use the magnifying glass to identify the biomimicry used and create a plan for biomimicry if the monuments were built in your community. You will need to research native plants and make sure that they will grow in your area. You can use the video camera to capture what you see.

**Assessment:** Have students hold an open house to share their designs, create business cards for their company, and share with local architects and nurseries.





3



5

# National Parks and CyArk Engineering Challenge



The statue of Lincoln in the Lincoln Memorial was carved from Georgia marble. Stones from other parts of the United States were also used to symbolize the importance of the Union to Lincoln. If you look closely at the statue you will find unique features that make the sculpture so special. The sculptor used many photographs of Lincoln; along with eyewitness descriptions to make sure he captured the essence of our 16th President.

Your task is to create a sculpture of a famous person that you have read about in history. Read eyewitness descriptions and look at photographs to make sure that you capture the essence of this famous person. Engineer this design with paper mache and place your finished product into a setting that tells their story.



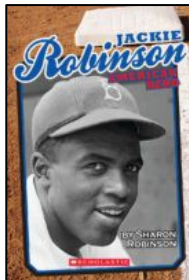
## Civil Rights

**CyArk Camera:** The camera tool will allow students to document quotes inside the MLK immersive experience.

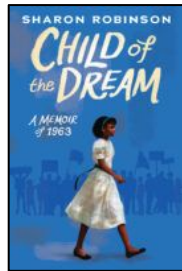
### Vocabulary:

crooked  
dream  
engulfed  
glory  
hill  
mountain  
plains  
revealed  
valley

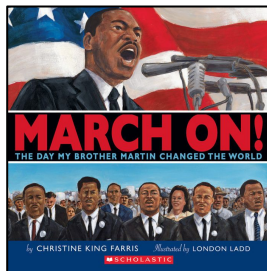
### Read:



Author: Sharon Robinson



Author: Sharon Robinson



Author: Christine King Farris  
Illustrated by: London Ladd

### Resources:

[Dr. Martin Luther King, Jr. Speech Text](#)  
[I Have A Dream Speech](#)  
[Primary Resources](#)

**Teacher Talk:** Facilitate a discussion on the influence of MLK on the Civil Rights. Share copies of the “I Have A Dream” speech and provide access to the audio.

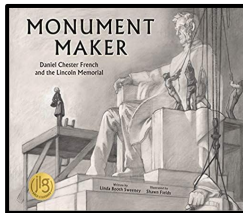
**Questions:** How does MLK’s mission align with Lincoln? What did MLK do to advance the Civil Rights of all?

**Task:** Students will examine the speech, “I Have A Dream” and articulate why it was a defining moment in the Civil Rights Movement. They will share their analysis through a visual drawing or illustration from the MLK immersive experience and through the use of primary sources. Extension: What resources within the Lincoln immersive supports MLK?

**Assessment:** This will be a persuasive writing using visuals so you will assess on their understanding and analyzing of the speech



Daniel Chester French is the sculptor best known for designing the statue of Abraham Lincoln that sits inside the Lincoln Monument. Read *Monument Maker* by Linda Sweeny. How did French create this huge statue? What challenges did he encounter? How did he overcome them?



**Monument Maker**  
Author: Linda Sweeny  
Illustrator: Shawn Fields

### Primary Source Analysis

The Lincoln Memorial stands at the west end of the National Mall in Washington, D.C. This memorial building, based on the Greek Parthenon, houses a gigantic marble statue of Abraham Lincoln, the 16th President of the United States.

- What do you see in the image below?
- What do you think it is?
- What evidence do you see to support your claim?



Access a high resolution a digital copy of this document at the [Library of Congress](https://www.loc.gov).

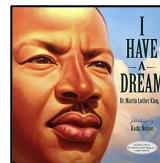
### MLK, Jr. Quotations

Many of Dr. Martin Luther King, Jr.'s most famous quotes are inscribed on the walls of the MLK Memorial.

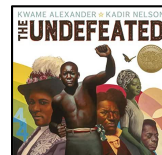
1. Have students use the CyArk Magnifying Glass to zoom in on the inscriptions and then use the Camera tool to take a picture or video of it.
2. Have students work in small groups to share the inscription they captured and discuss:
  - a. What do they think it means?
  - b. How might it apply now to our lives?
  - c. What kind of picture might you create to help others understand the meaning?

Dr. Martin Luther King, Jr. was a minister and civil rights activist. Learn more about him:

- Read Dr. King's *I Have A Dream* speech and then read *The Undefeated*.
- Discuss how Dr. King's ideas are shown in the illustrations. Compare the ideas in *I Have a Dream* with those in *The Undefeated*.



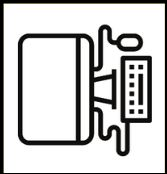
Author: Dr. Martin Luther King, Jr.  
Illustrator: Kadir Nelson



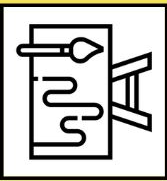
Author: Kwame Alexander  
Illustrator: Kadir Nelson







# ART & TECHNOLOGY



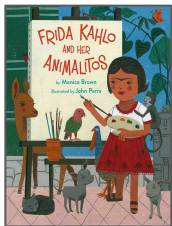
## Painting and Google Slides

### ART

#### Painting:

Inspired by the paintings of famous painters such as: Van Gogh, Norman Rockwell, Jean-Michel Basquiat, Georgia O'Keeffe, and Frida Kahlo, students will paint the monuments in the style of one of these OR a blend of several. They will also include a statement of work that shares why they chose that style.

#### Read:



Author: Monica Brown  
Illustrated by: John Parra



Author: Jame Mayhew

#### Resources:

[How to Paint Portraits from Photographs](#)

[Painting Landscapes](#)

[MLK Paintings](#)

[Lincoln Paintings](#)

### TECHNOLOGY

**CyArk Camera:** The Camera tool will allow students to capture interactions in the digital space that they can use in their Google Slides.

#### Google Slides:

Using Google Slides, create a photostory of the history of the memorials.

- How and when were they built?
- Who built them?
- What is the historic importance behind them?
- How have people used paintings to depict the monuments?

#### Resources:

[History of MLK Memorial](#)

[History of Lincoln Memorial](#)

[How to Use Google Slides](#)

[Creating a StoryBoard](#)

