

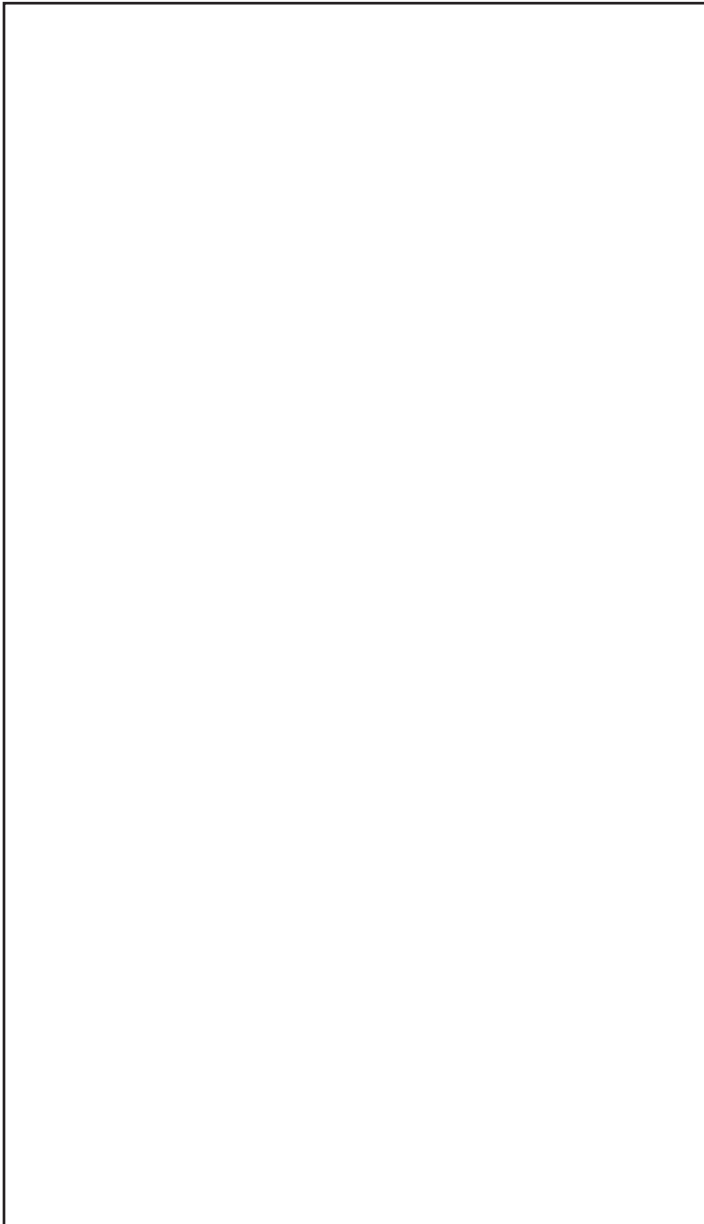
Designing a Structural Wonder

Follow the instructions to complete the activity.

NAME

DATE

Imagine you are designing a brand new structural wonder. Where would you put it? What materials would you use? What features would you include? What would inspire its design? If you were to include a geometric pattern, what would it look like? Write a description of your structural wonder, and draw a picture of it.



DESCRIPTION



Picture Description Match

Follow the instructions to complete the activity.

NAME

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Look at these pictures relating to the White House. Label each picture correctly.



A

South portico



B

Oval office



C

North portico



D

Entrance hall



E

State dining room



Complete the statements by filling in the correct number.

It takes this many gallons of paint to cover the outside surface of the White House.

18

The total floor area of the White House covers this many square feet.

1902

The White House and its grounds cover this many acres.

1792

Construction of the White House started in this year.

570

The White House has this many rooms.

55,000

The West Wing was built in this year.

147

The White House has this many windows.

132



True or False

Follow the instructions to complete the activity.

NAME

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Using information found in the book, verify whether the following statements are true or false. Check your answers in the book. List the page number where you found the information beside your answer.

Statement 1	Most neoclassical buildings are asymmetrical.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 2	After George Washington decided to build a place for future presidents to live, a contest was held to create the best design for "The President's House."	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 3	The grounds around the White House are called President's Path.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 4	The government chose limestone to construct the exterior of the White House.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 5	When originally planned, the White House was to be eight times the size of the one that was actually built.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>



Test Your Knowledge

Follow the instructions to complete the activity.

NAME

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Test your knowledge of the White House by answering these questions.

1. In which wing is the Oval Office located?

2. What is the address of the White House?

3. How much of the White House had been completed by 1797?

4. Who was the first president to live in the White House?



Quiz

Test your knowledge by answering these quiz questions.

NAME

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1 Who designed the White House?

2 How was the White House architect chosen?

3 What are the characteristics of neoclassical architecture?

4 Which portico does the president use to greet official guests?

5 How many people can be seated for a meal in the State Dining Room?

6 How do columns help support a building?

7 How long did it take to build the original White House?

8 When were the first solar panels installed at the White House?



Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

NAME

DATE

KEY WORDS

architect	focal point	loads
colonies	fossil fuels	neoclassical
colonnades	friction	
cornerstone	gravity	



- a series of columns at regular intervals, supporting a roof
- fuels that are made from plant or animal remains; for example, coal, natural gas, and petroleum
- a person who designs and supervises the construction of buildings
- a force that slows down motion when surfaces slide against each other
- the central point of attention
- weights or sources of pressure carried by objects
- settlements owned by another country
- a style of building that is taken from ancient Greece and Rome; normally uses columns, symmetry, and triangular pediments on the roof
- the force that moves objects toward the center of Earth
- a stone placed at the corner of a building during a ceremony to mark the start of construction



Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

NAME

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KEY WORDS

non-renewable
pediments
porticoes
quarry

quicklime
volutes
War of 1812
weathering

wing
World Heritage Site

11.
substance created by heating limestone, also called calcium oxide
12.
a resource that cannot be replaced through natural processes
13.
a site designated by the United Nations to be of great cultural worth to the world and in need of protection
14.
a place where rock is extracted from the ground
15.
spiral, scroll-like ornaments
16.
a structure attached to and connected internally with the side of a building
17.
covered porches
18.
a war between Great Britain and the United States, fought mainly along the Canadian border from 1812 to 1814
19.
structures that are usually placed on top of columns
20.
the breaking down of rocks and other materials by the action of wind, rain, and other elements



Quiz Answer Key

Compare your quiz answers with the answer key below.

NAME

DATE

- 1 James Hoban
- 2 James Hoban became the White House architect after winning a design competition
- 3 Columns, symmetry, and triangular pediments on the roof
- 4 North portico
- 5 Up to 140
- 6 Columns help support buildings by distributing the weight across a larger surface
- 7 More than 8 years
- 8 1979

