



WHAT'S NEW

At the George Bush Presidential Library in 2018



On exhibit:
March 1, 2018
to
January 6,
2019

PLUS STUDENT PARTICIPATION IN THEMED PROGRAMS* GEARED TOWARD GRADES 3-8

Visiting students will discover and learn about mechanical and engineering concepts, design, artistic beauty, and innovation.

While supplies last, all students who participate in a guided tour of the "Leonardo da Vinci: Machines in Motion" exhibit will receive a free copy of the "Who Was Leonardo da Vinci?" book by Roberta Edwards.

"I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do."
-Leonardo da Vinci

WHAT DO GEORGE BUSH AND LEONARDO DA VINCI HAVE IN COMMON?

BUSH MUSEUM DISPLAYS	LEONARDO DISPLAYS
<ul style="list-style-type: none"> - flying - sky diving - car - bicycle - aircraft carriers & family boat - presidential portraits - ADA - presidential leadership - legacy & creative thought 	<ul style="list-style-type: none"> - ornithopter - parachute - wheel & axle - bicycle - floats - painted portraits (Mona Lisa) - inclined plane - concepts & ideas - legacy & creative thought

*See options on back

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GEORGE H.W. BUSH
PRESIDENTIAL LIBRARY & MUSEUM



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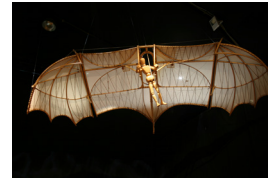


THEMED PROGRAMS

Teachers may choose any one (1) of the following three (3) activities for their students' participation:

PROGRAM 1

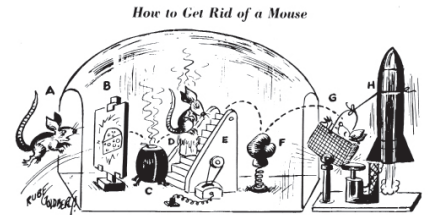
Leonardo
(75 min.)



Students will be introduced to Leonardo and 10 of his basic devices : (Lever, Pulley, Wheel & Axle, Inclined Plane, Gears, Ball Bearings, etc.) Students will then EACH be assigned a device to study and report on, and taken to the museum exhibit room to view Leonardo's machine models. After touring the exhibits, students will return to the classroom to discuss their observations.

PROGRAM 2

Rube Goldberg
(75 min.)



Students will be introduced to Leonardo and to Rube Goldberg. Students will then be assigned a task (either individually or as a team) and taken to the museum exhibit room to view Leonardo's machine models. After touring the exhibits students will return to the classroom to do

EITHER **A** or **B** exercise :

A TEAM design and draw a Rube Goldberg "machine"

OR

B EACH experiment with basic Leonardo devices (parachute, wheel & axle, inclined plane, lever)

2018 TEKS: STEM & STEAM CURRICULUM STANDARDS

Critical Thinking / Language Arts/ Fine Arts

- 3rd: 12, 2C, 3B, 4B
- 4th: 10, 2C, 3A, 4B
- 5th: 3C, 8, 10, 3A, 3B, 4A, 4B
- 6th: 8, 9, 2A, 3A, 4B
- 7th: 8, 9, 2A, 3A, 4B
- 8th: 8, 9, 2A, 3A, 4B

Math / Science

- 3rd: 1A, 1D, 5A, 6A, 6B, 6C
- 4th: 1A, 1D, 5A, 6D
- 5th: 1A, 1D, 1C, 5A, 6D
- 6th: 1A, 1D, 8B, 8D, 8E
- 7th: 1A, 1D, 7A
- 8th: 1A, 1D, 3D, 6A, 6C

Social Studies

- 3rd: 15A, 15B, 17E, 19A
- 4th: 21B, 21C
- 5th: 21B, 23A, 23B, 23C, 23D, 24A, 24B, 24C, 24D, 24E, 26A, 26B
- 6th: 2A, 2B, 18B, 18D, 20A

To make reservations for these programs, please email bush.education@nara.gov, call 979-691-4006, or visit Bush41.org and click on Education.



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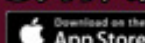


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