To learn more about the history of NASA Langley Research Center, see

http://crgis.ndc.nasa.gov/historic/Langley_Research_Center

Langley Cultural Resources Series

#1
List the names of the planets from least gravity to the greatest.

<table>
<thead>
<tr>
<th>PLANET</th>
<th>GRAVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury</td>
<td>0.18</td>
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<tr>
<td>Venus</td>
<td>0.91</td>
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<tr>
<td>Earth</td>
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<tr>
<td>Mars</td>
<td>0.38</td>
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<tr>
<td>Jupiter</td>
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<tr>
<td>Saturn</td>
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<tr>
<td>Uranus</td>
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<tr>
<td>Neptune</td>
<td>1.14</td>
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<tr>
<td>Pluto</td>
<td>0.04</td>
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</table>
Langley Research Center has been a part of the City of Hampton’s history since 1917. The property is 760 acres – about the size of 690 football fields! You may recognize some of the people who have worked or visited there: Orville Wright, Amelia Earhart, Franklin Roosevelt, and Neil Armstrong.

The astronauts trained in several buildings at NASA Langley. They had to learn how to handle space craft on the moon’s surface, and walk and run with less gravity. This training was conducted at the Lunar Lander Research Facility. You may have seen this structure before. It looks like a giant, red and white erector set.
At first, Langley Research Center was known as the Langley Memorial Aeronautical Laboratory. The government agency was named the National Advisory Committee for Aeronautics or NACA. NACA was transferred to NASA in 1958 when the President signed the National Aeronautics and Space Act. Starting with X, scratch off every other letter to see who the President was.

XEKIWSQETNAHROZWLEGRP

People had already been working at Langley when the President changed the name. They had been studying ways to make better airplanes, and had started working on flying into space. How long had NACA been in Hampton when it became NASA?

1958 (year the Space Act signed)

-1917 (year NACA started at Langley)

Many airplanes and space vehicles were tested at Langley. See if you can find these at the Hampton Air Power Park and the Virginia Air and Space Museum.

___ Little Joe
___ Mercury 14 Spacecraft
___ Lunar Excursion Module
___ Apollo 12 Module
___ Yankee Airplane
___ F-106 Aircraft
___ Viking Lander Model
___ Mars Sojourner Model
___ Jupiter Missile
___ SCAT-15 Airplane Model
___ LDEL Model
___ Space Shuttle Model
___ Bell X-1 Airplane Model
___ F-15 Strike Eagle Model
___ Kestral Jet Aircraft
Some well-known people have been to Langley Research Center. See if you can identify these.

___ The first woman to fly across the Atlantic Ocean alone.

___ The first pilot who flew non-stop from New York to Paris, France, a distance of 3600 miles.

___ The only American president to be elected to more than two terms.

___ The first American to orbit the Earth and the oldest to fly on the Shuttle when he was 77.

**ACROSS**

2. Location in Virginia of first NACA center.
5. First man to orbit Earth.
6. President who signed the National Aeronautics and Space Act.
8. National Advisory Committee for ___.
12. Early women with math degrees who worked at NACA.
13. President who visited NACA in 1938.
16. Space Program with a Hampton street named after it.
17. Number of original astronauts.
18. Flight program from 1981-2011: Space ____.
19. Water vehicle tested in Full-Scale Tunnel.

**DOWN**

1. Air Force Base adjacent to NASA Langley.
4. Large research facilities at NACA: wind ____.
7. Subject of early study at NACA.
10. Aviator to fly non-stop from New York to Paris.
11. Island where researchers launched rockets.
14. First person to walk on the Moon.
15. Female aviator Earhart who flew solo across Atlantic Ocean.

**Clues:**

- Franklin Roosevelt
- Charles Lindberg
- Amelia Earhart
- John Glenn

**Grid:**

**Clue:** a. b. c. d. a.
Unscramble the words to find out more about math at NACA and NASA.

When you hear the word ‘computer’ you probably think of a machine that sits on your desk. But long before they were machines, computers were ________________.

oenmw

Most of them went to college and studied ____________
tham

or had been ________________________.
chertsea

Most of the time, researchers were testing airplanes in wind tunnels and other buildings. But there were also some unusual tests. Unscramble the words to learn what some of these were.

umrnsbaie ________________________
sswuiint ________________________
riahceelwh ________________________
oommb ________________________
iiwndllm ________________________

The very first astronauts came to NASA Langley in 1959 to train. They had a lot to learn before they could fly in the space capsules. Bridges in Hampton are named for six of the original seven astronauts. A road was named for the seventh.

Find the seven astronauts below.
Grissom, Carpenter, Cooper, Glenn, Schirra, Shepard, Slayton

<table>
<thead>
<tr>
<th>CAR</th>
<th>RI</th>
<th>HC</th>
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<th>SS</th>
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