

Space Center Houston is an educational, entertainment complex serving as the public window on the world's most exciting scientific initiative... The American Space Program. Thanks to a magical mix of interactive exhibits, films, tours, and live presentations, learning about space, science and technology is effortless.

A Special Thanks to
Lockheed Martin
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**SPACE
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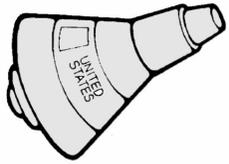
Grades 3-5

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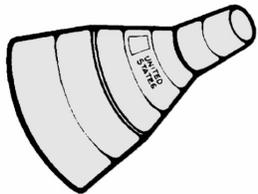
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Starship Gallery

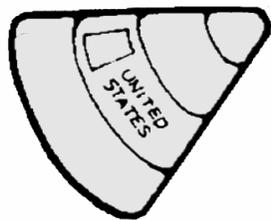
How many astronauts fit in each Capsule? Fill in the blanks.



Mercury Capsule



Gemini Capsule



Apollo Capsule

Crew Vehicle

Which of the following will the Multi-Purpose Crew Vehicle be capable of doing ?

- A. Going beyond low Earth orbit
- B. Long duration flights
- C. Short duration flights
- D. All of the above



The Orion capsule can carry a maximum of _____ Astronauts?



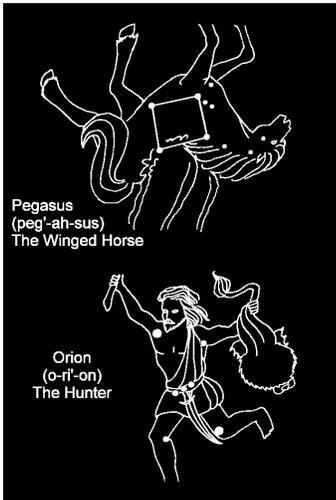
What other capsule looks very similar to the new Orion MPCV but only carried 3 astronauts? _____



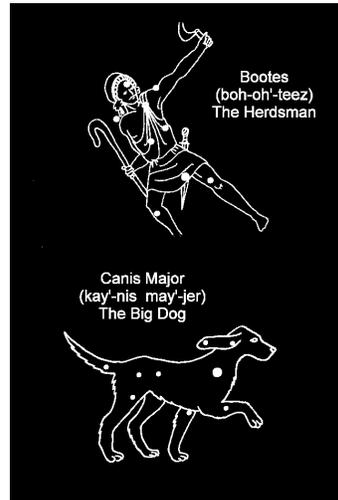
Multi-Purpose

NASA has designed a new capsule for future space exploration. After which constellation is the new MPCV named?

A.



B.



C.



D.

Which launch vehicle will carry the Multi-Purpose Crew Vehicle?

A. Saturn V

B. Space Shuttle

C. Space Launch System



Starship Gallery

We went to the moon 6 times. Look at the Lunar Landscape and describe what it looks like. Do you notice anything missing?

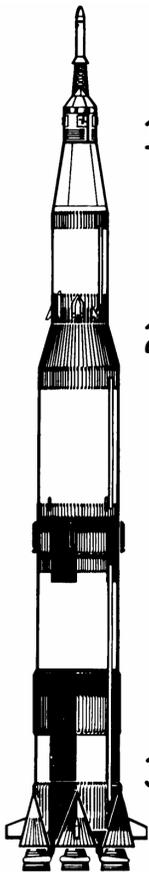
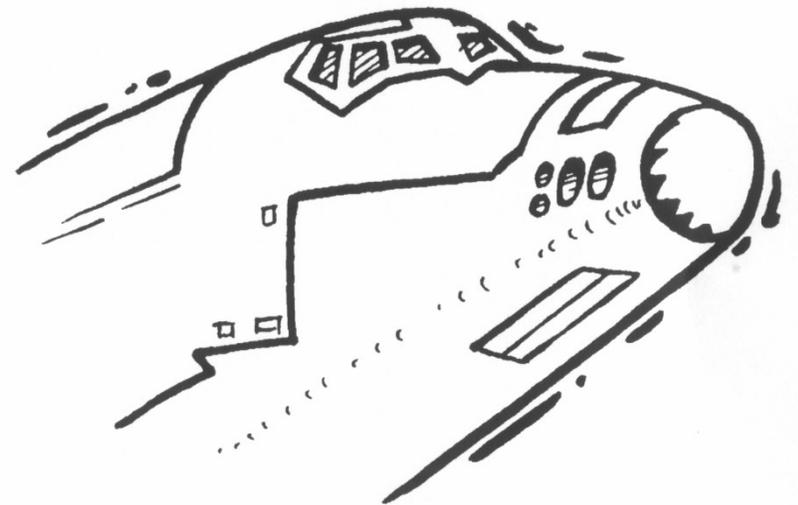


TRAM TOUR ROCKET PARK

SHUTTLE MOCK-UP

Before entering the space shuttle orbiter, take a good look at the outside. The orbiter gets very hot when it re-enters the earth's atmosphere, so NASA uses special tiles to protect it.

On the drawing below, shade in the black areas of the orbiter. The black areas get hotter than the rest of the shuttle during re-entry.

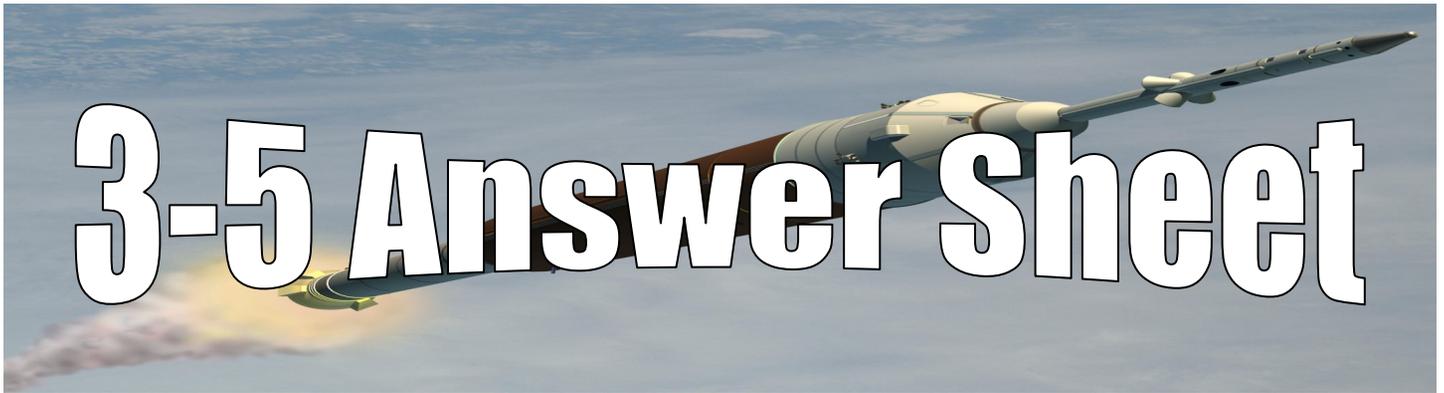


Saturn V

1. How tall is the Saturn V Rocket? _____
2. What two American Astronauts did the Mercury Redstone spacecraft propel into space? _____

3. What was Little Joe II used for? _____





Page 1

1. Mercury Capsule—1 astronaut
2. Gemini Capsule—2 astronauts
3. Apollo Capsule—3 astronauts

Page 2

Students can provide a creative description of the lunar landscape. Stars are missing from the background. Stars are there, the Astronauts just couldn't see them. Astronauts visited the Moon during lunar days and the Sun reflects off the surface of the Moon causing Astronauts' pupils to retract, making it impossible to see the stars much like trying to see stars during the day here on Earth.

Page 3

1. 363 ft.
2. Alan Shepard & Gus Grissom
3. Test launch for the Launch Escape System (LES)

Page 4

Students should shade in the black areas after observing the outside of the Shuttle "Adventure" orbiter.

Page 5

1. C. Orion
2. C. Space Launch System (SLS)

Page 6

1. D. All of the above—The MPCV is capable of transporting astronauts on a variety of expeditions beyond low Earth orbit and can support crew members for short or long-duration spaceflight missions.
2. The Orion capsule can carry a maximum of **6** Astronauts for Space Station missions.
3. Apollo Capsule
Read more about the new Orion Multi-Purpose Crew Vehicle @ <http://www.nasa.gov/exploration/systems/mpcv/design.html>