

Name _____ Date _____ Hour _____

| Got It! | Not Yet |
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| 28 - 21 | 20 - 0 |

ASTRONOMY #1 - The Space Race Study Guide

1. Name two objects that are studied in Modern day astronomy? _____ & _____
2. For a time there were two theories about what body, in the solar system, was located in the center. What were the two theories?
_____ - _____ universe & _____ - _____ universe
3. It was _____'s (Copernicus, Kepler, Galileo) observations that explained the irregular loops made by planets if the Sun at the center of the universe.
4. It was _____'s (Copernicus, Kepler, Galileo) observations of Venus through his telescope that supported a sun-centered universe.
5. _____ (Copernicus, Kepler, Galileo) was sentenced to life in prison because his evidence went against the beliefs of people in power.
6. What is a rocket?
7. To get into space a rocket must overcome the force of _____. This force is responsible for _____ objects towards Earth.
8. What is the difference between a satellite and an artificial satellite?

Give an example of each.

9. Artificial satellites orbit at different heights depending on their _____.
10. How are space probes different than a satellite?
11. The first artificial satellite to orbit earth was _____.
12. The first artificial satellite to carry a organism into space was _____.
13. Artificial satellites are used for:
 - 1) _____
 - 2) _____
 - 3) _____
 - 4) _____

14. Space Probes sent to the sun study the solar _____ and space _____.
15. Space Probes visiting Venus are studying the planet's _____.
16. Space Probes sent to Saturn study both the _____ and the _____.
17. In the chart below identify the "FIRSTS" to do the things stated.

The FIRST ...

| | | |
|-------|---|---------------------------|
| _____ | human in space | A. Laika |
| _____ | U.S. citizen in space | B. Neil Armstrong |
| _____ | artificial satellite (probe) to orbit Earth | C. Sputnik 1 |
| _____ | man on the moon | D. Alan B. Shepard |
| _____ | living thing in space | E. Yuri A. Gagarin |

18. What event marked the start of the Space Race?
19. What countries were involved in the Space Race? _____ & _____
20. President _____, said let's send the first man to the _____.
21. What were the two countries "Racing" to/for?
22. What was the benefit of using the Space Shuttle?
23. What is a Spinoff? Give 3 examples.
24. What was the first animal to go into space? Type & Name
25. Identify a pro and a con for sending animals into space.

| | |
|-----|-----|
| PRO | CON |
|-----|-----|
26. Identify a pro and a con for funding NASA's space exploration programs.

| | |
|-----|-----|
| PRO | CON |
|-----|-----|
27. Given the money, would you support NASA space programs in the future?
 State your claim then justify it with evidence from your pros and cons answers in #18-19.
 Claim:
 Justification:
28. What is the "ISS" and what happens there?