



# APOLLO 13

Video Guide

1. What were the astronauts and their families watching at the party?
2. Who was the commander of the 1st manned spacecraft to land on the moon?
3. "From now on we live in a world where man has walked on the Moon." (Who said this)
4. Why were Jim Lovell and his crew bumped up to Apollo 13?
5. Why did the prime crew redo the simulator?
6. What happened during Lovell's dream?
7. How long does it take to get to the moon?
8. What was Lovell's son worried about?
9. Why was the Apollo 13 crew changed at the last moment?
10. Where do they launch from?
11. What was given to Gene Kranz [Flight] that was a tradition in Mission Control?
12. Where is Mission Control located?
13. Explain "lift off" in terms of Newton's 3<sup>rd</sup> Law of Motion? (A diagram may help)
  
14. What was the "glitch" that happened during the launch?
15. Why did the helmets float away from the crew?
16. What does the crew have to dock with when they get to space? Why?
17. Why couldn't Jim Lovell's mother see her son in space?
18. What event led to the explosion on the command module? (What was Jack Swigert doing when the explosion occurred?)
19. "Houston, we have a problem" (Who said it)
20. What is venting from the space craft into space?
21. What do they have to do to save both power and O<sub>2</sub>?
22. Why did the LEM (Aquarius) become a "lifeboat"? What essentials were being lost in the Control Module (Odyssey)?

23. Why were communications lost on the far side of the moon?
24. Why did they have to “power-down” everything?
25. Why is “failure not an option?”
  
26. Who got put in the “driver’s seat?”
27. The "lifeboat" that the three astronauts used to survive in on their way back to Earth, was only designed for two astronauts. What was the life threatening problem that developed?
28. How did Houston solve the problem?
  
29. What was Houston’s reaction to Lovell removing the biomed sensor?
30. What point of reference does Lovell use to guide the LEM during the short engine burn?
31. What was the problem with powering up for the re-entry sequence?
32. How do they solve the problem of four extra amps? Who figured it out?
  
33. Why does the Apollo 13 crew have to move things around inside the LEM and CM?
34. Why is there condensation on the windows of the Command Module?
  
35. How does “Flight” feel about the situation right before reentry?
  
36. What does the Command Module look like as it enters Earth’s atmosphere? Why?
  
37. The Apollo 13 mission was described as a "successful failure." Why?
  
38. How long did the Apollo 13 mission last?

