1
00:00:40,069 --> 00:00:38,310
on the first night we received an

2
00:00:42,150 --> 00:00:40,079
individual challenge to design a tool

3
00:00:44,389 --> 00:00:42,160
with no moving parts that would allow an

4
00:00:46,150 --> 00:00:44,399
astronaut to repair the coolant system

5
00:00:48,229 --> 00:00:46,160
after coming together as a team and

6
00:00:50,790 --> 00:00:48,239
engineering the tool the design was

7
00:00:54,310 --> 00:00:50,800
programmed into a 3d drawing software

8
00:00:56,709 --> 00:00:54,320
and then printed using a 3d printer

9
00:00:58,790 --> 00:00:56,719
on tuesday morning we took the jsc tram

10
00:01:01,750 --> 00:00:58,800
tour to visit the space vehicle mock-up

11
00:01:03,910 --> 00:01:01,760
facility the dr christopher c craft jr

12
00:01:05,429 --> 00:01:03,920
mission control center and finally

13
00:01:09,270 --> 00:01:05,439

rocket park to get a glimpse of the

14
00:01:13,190 --> 00:01:11,190
on tuesday night all teams took part in

15
00:01:14,950 --> 00:01:13,200
apollo knight where we met milt heflin

16
00:01:16,870 --> 00:01:14,960
on the actual floor of historic mission

17
00:01:19,109 --> 00:01:16,880
control he told us about his many

18
00:01:20,950 --> 00:01:19,119
experiences with apollo missions and his

19
00:01:21,910 --> 00:01:20,960
flight director for the space shuttle

20
00:01:23,350 --> 00:01:21,920
program

21
00:01:25,350 --> 00:01:23,360
and then we were able to view the

22
00:01:45,830 --> 00:01:25,360
operational mission control room for the

23
00:01:48,950 --> 00:01:47,749
on wednesday morning fred smith came to

24
00:01:50,550 --> 00:01:48,960
talk to us about life support and

25
00:01:52,069 --> 00:01:50,560
habitability systems

26
00:01:53,670 --> 00:01:52,079
he spoke to us about many programs

27
00:01:56,230 --> 00:01:53,680
including mercury which worked out the

28
00:01:58,630 --> 00:01:56,240
basics of space flight and apollo during

29
00:02:12,309 --> 00:01:58,640
which nasa successfully took six manned

30
00:02:15,830 --> 00:02:13,830
before we could throw our lander off the

31
00:02:17,430 --> 00:02:15,840
third floor we had to loft our materials

32
00:02:19,589 --> 00:02:17,440
to the second floor to simulate us

33
00:02:22,229 --> 00:02:19,599
escaping earth's gravitational pull and

34
00:02:24,630 --> 00:02:22,239
entering lower earth orbit each team was

35
00:02:26,630 --> 00:02:24,640
given costs and rewards for each loft

36
00:02:28,550 --> 00:02:26,640
and at the end of the mission each team

37
00:02:39,509 --> 00:02:28,560
had to tally their costs to determine

38
00:02:39,519 --> 00:03:16,630

so

39
00:03:20,149 --> 00:03:18,390
for our final lunch and learn brandy

40
00:03:22,630 --> 00:03:20,159
dean spoke to all the teams about the

41
00:03:24,710 --> 00:03:22,640
orion program and its future plans such

42
00:03:27,110 --> 00:03:24,720
as its first launch in december to test

43
00:03:28,949 --> 00:03:27,120
the re-entry from a deep space mission

44
00:03:31,270 --> 00:03:28,959
with all the new technologies found on

45
00:03:49,910 --> 00:03:31,280
orion the goal of sending humans to mars