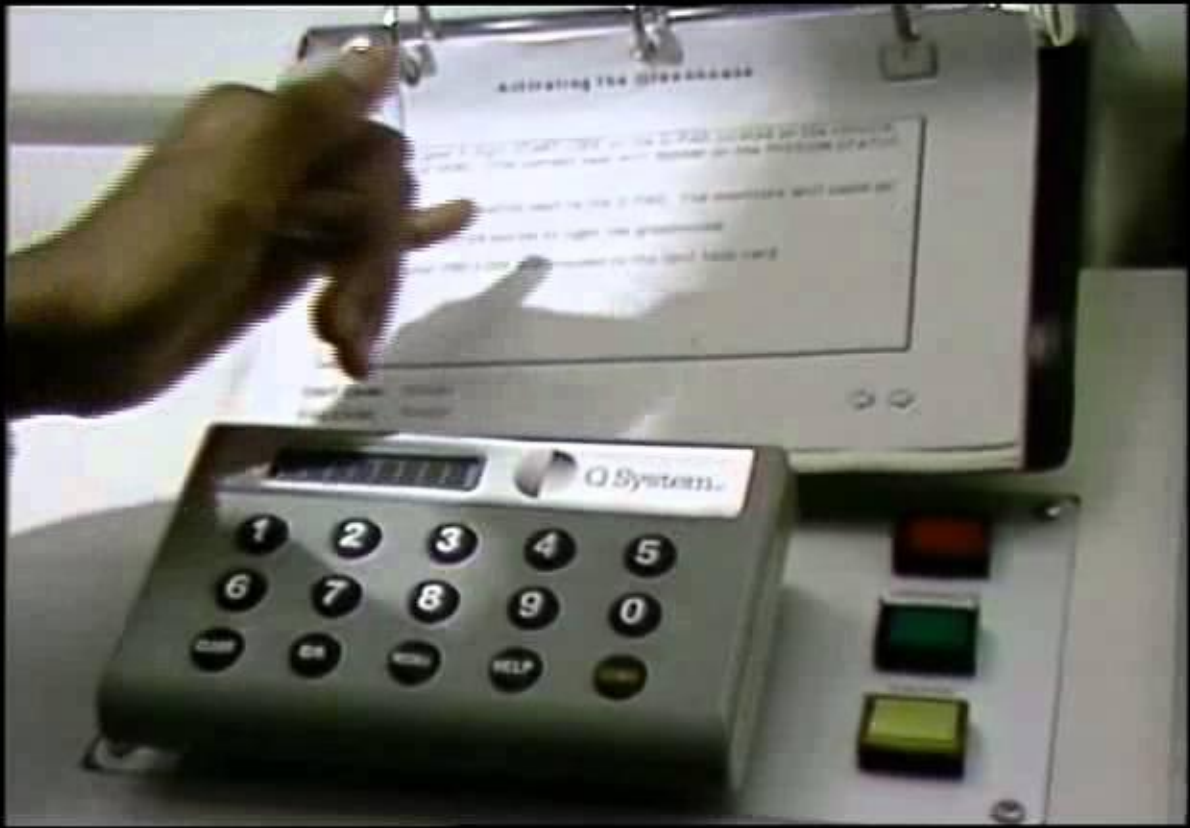
1
2
3
4
5
6
7
8
9
0

1
00:00:11,480 --> 00:00:26,660
15 14 13 12 11

2
00:00:26,670 --> 00:01:05,800
there

3
00:01:12,080 --> 00:01:08,570
admission control and farby death

4
00:01:14,060 --> 00:01:12,090
confirmed velocity 4,300 feet per second

5
00:01:15,620 --> 00:01:14,070
hello I'm Lynn Bondurant from the

6
00:01:18,500 --> 00:01:15,630
Challenger Center for space science

7
00:01:20,540 --> 00:01:18,510
education all of us at the Challenger

8
00:01:23,060 --> 00:01:20,550
cen are very pleased to learn that your

9
00:01:25,910 --> 00:01:23,070
class will soon be flying a mission to

10
00:01:27,530 --> 00:01:25,920
rendezvous with comet Halley you might

11
00:01:28,160 --> 00:01:27,540
ask well what does it like to fly a

12
00:01:32,930 --> 00:01:28,170
mission

13
00:01:35,480 --> 00:01:32,940

to an amusement park in writing a ride

14
00:01:37,790 --> 00:01:35,490
but it's more like being on a motion

15
00:01:41,450 --> 00:01:37,800
picture set where each one of you is a

16
00:01:43,130 --> 00:01:41,460
star in this future space mission once

17
00:01:45,980 --> 00:01:43,140
you arrive at the Challenger Learning

18
00:01:49,340 --> 00:01:45,990
Center your group will be divided in

19
00:01:52,280 --> 00:01:49,350
half half of you will begin your flight

20
00:01:55,040 --> 00:01:52,290
in the space station the other half and

21
00:01:57,410 --> 00:01:55,050
Mission Control you have a very

22
00:02:00,020 --> 00:01:57,420
important flight ahead of you you're

23
00:02:03,680 --> 00:02:00,030
going to rendezvous with comet Halley in

24
00:02:05,780 --> 00:02:03,690
the year 2060 1 you are going to build

25
00:02:09,889 --> 00:02:05,790
upon what was learned during Halley's

26
00:02:11,930 --> 00:02:09,899
last approach near Earth in 1986 during

27
00:02:14,870 --> 00:02:11,940
this mission you are to follow comet

28
00:02:17,810 --> 00:02:14,880
Halley which is potato shaped and very

29
00:02:20,479 --> 00:02:17,820
dark doing a portion of its orbit around

30
00:02:23,000 --> 00:02:20,489
the Sun your mission is to gather

31
00:02:26,180 --> 00:02:23,010
information which can be studied later

32
00:02:29,240 --> 00:02:26,190
in the classroom to determine how space

33
00:02:32,180 --> 00:02:29,250
scientists can use comets such as Hallie

34
00:02:34,370 --> 00:02:32,190
to furnish the lunar research stations

35
00:02:38,590 --> 00:02:34,380
and space stations in orbit around Earth

36
00:02:40,910 --> 00:02:38,600
with resources available from comets

37
00:02:43,880 --> 00:02:40,920
everyone who participates in a

38
00:02:48,110 --> 00:02:43,890

simulation is very important to the

39
00:02:51,560 --> 00:02:48,120
success of the mission as such each one

40
00:02:53,720 --> 00:02:51,570
of you will be assigned to a team your

41
00:02:56,320 --> 00:02:53,730
team will have certain things that you

42
00:02:58,360 --> 00:02:56,330
must do that relate to the mission

43
00:03:01,009 --> 00:02:58,370
members of each team will have

44
00:03:04,490 --> 00:03:01,019
workstations in both Mission Control and

45
00:03:08,150 --> 00:03:04,500
the space station during the mission you

46
00:03:10,160 --> 00:03:08,160
will work in both locations in Mission

47
00:03:13,490 --> 00:03:10,170
Control you will work at one of the

48
00:03:16,339 --> 00:03:13,500
various councils team members and

49
00:03:19,010 --> 00:03:16,349
Mission Control guide the space station

50
00:03:22,430 --> 00:03:19,020
through various aspects of the flight

51
00:03:24,560 --> 00:03:22,440
as mission controllers you will supply

52
00:03:28,520 --> 00:03:24,570
the flight crew in the space station

53
00:03:32,000 --> 00:03:28,530
with information in images needed to

54
00:03:34,730 --> 00:03:32,010
complete their tasks at the console you

55
00:03:37,210 --> 00:03:34,740
will also receive information to record

56
00:03:39,830 --> 00:03:37,220
from the crew and the space station

57
00:03:41,750 --> 00:03:39,840
sometimes you will be able to see live

58
00:03:44,450 --> 00:03:41,760
images from the space station

59
00:03:47,330 --> 00:03:44,460
the monitors at the front of Mission

60
00:03:50,270 --> 00:03:47,340
Control reflect what is occurring in the

61
00:03:54,760 --> 00:03:50,280
space station the status of the mission

62
00:03:57,560 --> 00:03:54,770
and also show data are video images as

63
00:03:59,380 --> 00:03:57,570

mission controllers you have a very

64
00:04:02,420 --> 00:03:59,390
important role that involves

65
00:04:05,810 --> 00:04:02,430
communications and interactions with the

66
00:04:08,930 --> 00:04:05,820
crew and the space station your job is

67
00:04:12,110 --> 00:04:08,940
to help them solve their problems it is

68
00:04:15,670 --> 00:04:12,120
your responsibility to know which tests

69
00:04:19,340 --> 00:04:15,680
the crew and the space station is doing

70
00:04:22,700 --> 00:04:19,350
cash cards will help you do this every

71
00:04:25,820 --> 00:04:22,710
workstation in the Space Station and all

72
00:04:28,130 --> 00:04:25,830
of the consoles and Mission Control have

73
00:04:31,010 --> 00:04:28,140
a set of task cards that relate to the

74
00:04:34,970 --> 00:04:31,020
jobs that 13 must do during the

75
00:04:38,050 --> 00:04:34,980
simulation each task card has the steps

76
00:04:41,240 --> 00:04:38,060
required to complete a specific task

77
00:04:44,870 --> 00:04:41,250
notice that the task card has a start in

78
00:04:48,170 --> 00:04:44,880
encode you are to enter the start code

79
00:04:51,770 --> 00:04:48,180
when you begin a task and the end code

80
00:04:55,210 --> 00:04:51,780
when it is completed to do this you will

81
00:04:59,840 --> 00:04:55,220
use the cue pad at your workstation a

82
00:05:02,060 --> 00:04:59,850
cue pad is not difficult to use as an

83
00:05:05,780 --> 00:05:02,070
example watch as the start code is

84
00:05:09,860 --> 00:05:05,790
entered from one of the task cards make

85
00:05:12,620 --> 00:05:09,870
sure you enter the correct code after

86
00:05:16,490 --> 00:05:12,630
the start code is entered press the send

87
00:05:18,470 --> 00:05:16,500
button once the start code is sent the

88
00:05:20,900 --> 00:05:18,480

mission status board changes to let

89
00:05:24,140 --> 00:05:20,910
Mission Control know what the data team

90
00:05:29,060 --> 00:05:24,150
is doing watch the mission status board

91
00:05:31,010 --> 00:05:29,070
change as the CIN button is pushed the

92
00:05:32,300 --> 00:05:31,020
various tasks are carried out in the

93
00:05:34,310 --> 00:05:32,310
space station

94
00:05:37,700 --> 00:05:34,320
if you are a member of the biosphere

95
00:05:40,070 --> 00:05:37,710
team you will work at this station from

96
00:05:43,159 --> 00:05:40,080
here you can tell operate vehicles in

97
00:05:45,560 --> 00:05:43,169
the greenhouse tell operations means

98
00:05:48,530 --> 00:05:45,570
that you are able to operate something

99
00:05:51,710 --> 00:05:48,540
from afar you do not need to be right

100
00:05:53,900 --> 00:05:51,720
there to make it work the biosphere team

101
00:05:57,700 --> 00:05:53,910
will also study leaves from some of the

102
00:06:00,710 --> 00:05:57,710
plants in the greenhouse in the glovebox

103
00:06:03,890 --> 00:06:00,720
the medical team studies the effects of

104
00:06:05,930 --> 00:06:03,900
space travel on the crew your job is to

105
00:06:09,950 --> 00:06:05,940
find out the effect of the zero-g

106
00:06:13,220 --> 00:06:09,960
environment on the health of the crew G

107
00:06:17,090 --> 00:06:13,230
stands for the word gravity you will do

108
00:06:18,890 --> 00:06:17,100
tasks to evaluate the crews health if

109
00:06:22,100 --> 00:06:18,900
you are assigned to work at the

110
00:06:24,890 --> 00:06:22,110
isolation chamber you will use robots to

111
00:06:27,560 --> 00:06:24,900
handle dangerous materials outside of

112
00:06:29,810 --> 00:06:27,570
the space station those of you assigned

113
00:06:31,790 --> 00:06:29,820

to the life support team will be

114
00:06:34,280 --> 00:06:31,800
involved in checking out the various

115
00:06:36,320 --> 00:06:34,290
systems that produce the artificial

116
00:06:36,770 --> 00:06:36,330
environment that keeps the astronauts

117
00:06:40,070 --> 00:06:36,780
alive

118
00:06:43,250 --> 00:06:40,080
for example the life support station

119
00:06:47,210 --> 00:06:43,260
monitors the oxygen and water necessary

120
00:06:49,550 --> 00:06:47,220
for the daily needs of the crew the

121
00:06:52,310 --> 00:06:49,560
navigation team will be busy locating

122
00:06:55,550 --> 00:06:52,320
comet Halley and firing probes into the

123
00:06:57,980 --> 00:06:55,560
nucleus of the comet as data team

124
00:07:01,219 --> 00:06:57,990
members you will send messages and

125
00:07:03,469 --> 00:07:01,229
supply data to the various teams the

126
00:07:05,900 --> 00:07:03,479
probe team will assemble and launch a

127
00:07:08,029 --> 00:07:05,910
probe that will fly through the area

128
00:07:12,110 --> 00:07:08,039
around comet Halley to gather

129
00:07:15,140 --> 00:07:12,120
information about the comet Capcom and

130
00:07:17,990 --> 00:07:15,150
Mission Control and simcom in the space

131
00:07:21,170 --> 00:07:18,000
station will be kept busy asking for

132
00:07:24,020 --> 00:07:21,180
answers and providing input is necessary

133
00:07:28,070 --> 00:07:24,030
to make the entire mission operate

134
00:07:33,290 --> 00:07:28,080
smoothly good luck in your endeavors as

135
00:07:35,180 --> 00:07:33,300
you rendezvous with comet Halley your

136
00:07:39,050 --> 00:07:35,190
flight will involve such things as

137
00:07:41,810 --> 00:07:39,060
teamwork problem-solving communication

138
00:07:45,080 --> 00:07:41,820

skills skills that you will use all of

139
00:07:46,129 --> 00:07:45,090
your life may your mission to rendezvous

140
00:07:48,649 --> 00:07:46,139
with comet

141
00:07:50,450 --> 00:07:48,659
Halim be a good one hopefully your

142
00:07:52,909 --> 00:07:50,460
flight will excite you to explore a

143
00:07:55,999 --> 00:07:52,919
future career that involves science or

144
00:07:59,689 --> 00:07:56,009
mathematics but whatever your future