



1  
00:00:07,430 --> 00:00:05,269  
once it's time to come back to earth

2  
00:00:10,709 --> 00:00:07,440  
orion's service module engines are fired

3  
00:00:12,870 --> 00:00:10,719  
to leave distant retrograde orbit or dro

4  
00:00:14,870 --> 00:00:12,880  
the burn sends orion on a five-day path

5  
00:00:17,109 --> 00:00:14,880  
to come back toward the moon

6  
00:00:20,390 --> 00:00:17,119  
orion comes very close to the moon again

7  
00:00:22,630 --> 00:00:20,400  
passing about 60 miles above its surface

8  
00:00:24,950 --> 00:00:22,640  
then the engines are fired for a second

9  
00:00:27,189 --> 00:00:24,960  
time and the burn works with the pull of

10  
00:00:29,830 --> 00:00:27,199  
the moon's gravity to shoot orion back

11  
00:00:32,069 --> 00:00:29,840  
on a path toward home before entering

12  
00:00:33,590 --> 00:00:32,079  
earth's atmosphere orion's service

13  
00:00:36,310 --> 00:00:33,600

module will separate from the crew

14

00:00:39,110 --> 00:00:36,320

module the crew module will be traveling

15

00:00:41,670 --> 00:00:39,120

at a speed of about 25 000 miles per

16

00:00:44,069 --> 00:00:41,680

hour when it hits the atmosphere orion

17

00:00:46,310 --> 00:00:44,079

will reach temperatures of nearly 5 000

18

00:00:48,630 --> 00:00:46,320

degrees fahrenheit as it slows down due

19

00:00:50,069 --> 00:00:48,640

to air friction that's almost half as

20

00:00:52,549 --> 00:00:50,079

hot as the sun

21

00:00:54,630 --> 00:00:52,559

but don't worry orion has a heat shield

22

00:00:56,389 --> 00:00:54,640

to protect it and parachutes will make