



1  
00:00:00,367 --> 00:00:04,838  
OSIRIS-REx is NASA's mission to  
explore asteroid Bennu.

2  
00:00:04,838 --> 00:00:09,376  
Its goal is to collect a sample  
of Bennu and return it to Earth.

3  
00:00:09,376 --> 00:00:13,046  
[ music ]

4  
00:00:13,046 --> 00:00:16,016  
To get to Bennu, OSIRIS-REx must  
first match the asteroid's

5  
00:00:16,016 --> 00:00:17,851  
orbital tilt.

6  
00:00:19,186 --> 00:00:21,855  
In September 2017, it will  
approach Earth

7  
00:00:21,855 --> 00:00:23,957  
for a gravity assist,

8  
00:00:23,957 --> 00:00:27,928  
bringing the spacecraft  
within 11,000 miles of home.

9  
00:00:27,928 --> 00:00:39,306  
[ music ]

10  
00:00:39,306 --> 00:00:43,744  
Following the flyby, OSIRIS-REx  
will look back at Earth.

11  
00:00:43,744 --> 00:00:46,947  
[ music ]

12

00:00:46,947 --> 00:00:50,784

It will take images and spectra  
of our world,

13

00:00:50,784 --> 00:00:53,553

calibrating its instruments so  
that they are ready

14

00:00:53,553 --> 00:00:55,322

to study Bennu.

15

00:00:55,322 --> 00:01:04,364

[ music ]

16

00:01:04,364 --> 00:01:07,501

The gravity assist will change  
OSIRIS-REx's orbital tilt

17

00:01:07,501 --> 00:01:08,835

by six degrees,

18

00:01:09,336 --> 00:01:13,807

sending it on a path to  
catch asteroid Bennu in 2018.

19

00:01:13,807 --> 00:01:17,010

[ music ]