

Lucy's Journey  
"Into the Unknown"



1

00:00:00,666 --> 00:00:04,833

(music throughout) There are still five more Trojan asteroids to explore on your 12 year journey,

2

00:00:05,250 --> 00:00:09,500

each one has a different story to tell about the history of our Solar System.

3

00:00:10,166 --> 00:00:15,416

Next up is Polymele a mere twenty-one kilometers or 13 miles in diameter.

4

00:00:16,083 --> 00:00:20,916

Afterwards, you'll be zooming by Leucas, which rotates at an extremely slow rate

5

00:00:21,083 --> 00:00:25,083

with each day being about 18.5 Earth days long.

6

00:00:25,666 --> 00:00:30,416

Afterwards, you'll be on to Orus, which might be rich in organics and carbon.

7

00:00:32,666 --> 00:00:36,500

Lastly, you'll be on your way to a twin pair of asteroids, Patroclus

8

00:00:36,500 --> 00:00:40,666

and Menoetius. These asteroids, relatively unchanged over

9

00:00:40,666 --> 00:00:45,750

four billion years, will give us a glimpse of our Solar System's distant past.

10

00:00:46,500 --> 00:00:48,833

With each flyby of a Trojan asteroid.

11

00:00:49,000 --> 00:00:50,833  
You'll be looking at time capsules

12  
00:00:50,833 --> 00:00:54,833  
from the birth of our Solar System  
over four billion years ago.

13  
00:00:55,416 --> 00:00:58,916  
Lucy, what your observations  
tell us about the composition

14  
00:00:58,916 --> 00:01:02,666  
and properties of the Trojan asteroids  
could give us clues about how

15  
00:01:02,666 --> 00:01:04,000  
Earth came to be.

16  
00:01:06,750 --> 00:01:10,083  
Absolutely. Carry on your journey, Lucy.