



1
00:00:00,400 --> 00:00:04,037
We're excited to announce two
missions of Discovery.

2
00:00:04,037 --> 00:00:07,040
These missions will help
us learn about the infancy

3
00:00:07,040 --> 00:00:11,044
of our solar system: a
period just ten million

4
00:00:11,044 --> 00:00:13,613
years after the birth of our sun.

5
00:00:13,613 --> 00:00:16,216
The first mission
is called Lucy.

6
00:00:16,216 --> 00:00:19,753
Lucy will visit six
diverse bodies known as

7
00:00:19,753 --> 00:00:21,154
Trojans.

8
00:00:21,154 --> 00:00:25,525
These Trojans orbit the
sun in swarms in front of

9
00:00:25,525 --> 00:00:29,829
and behind Jupiter, trapped by Jupiter's gravity.

10
00:00:29,829 --> 00:00:32,766
We know very little
about these objects.

11
00:00:32,766 --> 00:00:36,703
They may be captured

asteroids, comets, or even

12

00:00:36,703 --> 00:00:39,406

Kuiper Belt objects.

13

00:00:39,406 --> 00:00:42,942

The second mission
is called Psyche.

14

00:00:42,942 --> 00:00:46,946

Psyche will take us to
a very large and rare

15

00:00:46,946 --> 00:00:50,383

asteroid made of metal!

16

00:00:50,383 --> 00:00:53,686

16 Psyche is the
asteroid. It is made of

17

00:00:53,686 --> 00:00:58,591

metallic iron and nickel, much like the Earth's core.

18

00:00:58,591 --> 00:01:02,595

Scientists believe that
Psyche may be exposed core

19

00:01:02,595 --> 00:01:06,199

of a planet that was
once the size of Mars

20

00:01:06,199 --> 00:01:09,302

but it lost its outer
rocky layers due to a

21

00:01:09,302 --> 00:01:12,572

series of violent
collisions.

22

00:01:12,572 --> 00:01:18,411
Lucy launches in 2021
and Psyche in 2023.

23

00:01:18,411 --> 00:01:21,314
Come along for the ride
and follow these and other