1
00:00:00,000 --> 00:00:08,833
<music>
ON-SCREEN TEXT: NASA's TESS mission discovered something new about a fascinating stellar pair just 130

2
00:00:08,833 --> 00:00:16,833
ON-SCREEN TEXT: Both of the young stars host planets.

3
00:00:16,833 --> 00:00:25,000
ON-SCREEN TEXT: The stars are of similar age and are traveling in nearly the same direction ...

4
00:00:25,000 --> 00:00:33,416
ON-SCREEN TEXT: ... so scientists think they're stellar siblings, born from the same gas cloud.

5
00:00:33,416 --> 00:00:38,500
ON-SCREEN TEXT: TESS detected the stars' planets by looking for regular dips in starlight.

6
00:00:38,500 --> 00:00:47,416
ON-SCREEN TEXT: These dips are called transits.

7
00:00:47,416 --> 00:00:55,583
ON-SCREEN TEXT: One system, called TOI 2076, has three mini-Neptunes ...

8
00:00:55,583 --> 00:01:01,250
ON-SCREEN TEXT: ... planets larger than Earth but smaller than Neptune.

9
00:01:01,250 --> 00:01:04,250
ON-SCREEN GRAPHIC: TOI 2076 b; size: 3.2x Earth, orbit: 10.4 days

10
00:01:04,250 --> 00:01:07,250
ON-SCREEN GRAPHIC: TOI 2076 c; size: 4.4x Earth, orbit: over 17 days

11
00:01:07,250 --> 00:01:11,833
ON-SCREEN GRAPHIC: TOI 2076 d; size: 4.1x Earth, orbit: over 17 days

12
00:01:11,833 --> 00:01:16,833
ON-SCREEN TEXT: The other, called TOI 1807, hosts a single planet about twice Earth's size.

13

00:01:16,833 --> 00:01:20,666
ON-SCREEN GRAPHIC: TOI 1807 B; size: 1.8x Earth, orbit: 0.5 days

14
00:01:20,666 --> 00:01:29,666
ON-SCREEN TEXT: We don't know much about these planets yet ...

15
00:01:29,666 --> 00:01:38,166
ON-SCREEN TEXT: ... but scientists are excited to study them further with missions like NASA's Hubble and J

16
00:01:38,166 --> 00:01:46,833
ON-SCREEN TEXT: These worlds could help us better understand how young planetary systems evolve.

17
00:01:46,833 --> 00:01:55,833
ON-SCREEN TEXT: In the meantime, TESS will continue hunting for faraway worlds and help unlock even mo