



1

00:00:00,540 --> 00:00:05,220

The sun and the planet Jupiter are made of almost exactly the same stuff.

2

00:00:05,440 --> 00:00:07,540

Jupiter's like a piece of the sun.

3

00:00:08,040 --> 00:00:09,180

So why aren't they more alike?

4

00:00:09,180 --> 00:00:16,300

[Music]

5

00:00:19,040 --> 00:00:22,140

The sun and Jupiter have a lot in common.

6

00:00:22,300 --> 00:00:27,520

The sun is made almost entirely of hydrogen and helium.

7

00:00:27,740 --> 00:00:32,520

There's a sprinkling of the other elements, but mostly hydrogen and helium.

8

00:00:34,240 --> 00:00:39,540

But Jupiter is made of almost exactly the same stuff as the sun.

9

00:00:39,660 --> 00:00:44,500

And yet, Jupiter has a higher concentration of these heavier elements in it.

10

00:00:45,300 --> 00:00:50,620

These elements are heavier. They're more massive than hydrogen or helium. You

11

00:00:50,800 --> 00:00:55,400

So you might have expected them to fall into the center of the solar system.

12

00:00:55,800 --> 00:00:59,080

But no! They are stuck way out here at Jupiter.

13

00:00:59,200 --> 00:01:01,740

These elements are significant because these are the elements

14

00:01:01,870 --> 00:01:07,450

that make up the Earth, and you, and me. Do you know why they're out here in Jupiter?