



1
00:00:00,000 --> 00:00:03,000
(music)

2
00:00:03,000 --> 00:00:05,000
Is Mars red hot?

3
00:00:05,000 --> 00:00:08,000
Mars may look hot, but don't let its color fool you --

4
00:00:08,000 --> 00:00:11,000
Mars is actually pretty cold!

5
00:00:11,000 --> 00:00:15,000
In orbit, Mars is about 50 million miles farther away from the Sun than Earth.

6
00:00:15,000 --> 00:00:19,000
That means it gets a lot less light and heat to keep it warm.

7
00:00:19,000 --> 00:00:22,000
Mars also has a hard time holding onto the heat it does get.

8
00:00:22,000 --> 00:00:25,000
On Earth, much of the sun's heat gets trapped in our atmosphere,

9
00:00:25,000 --> 00:00:28,000
which acts like a blanket to keep our planet warm.

10
00:00:28,000 --> 00:00:32,000
But Mars' atmosphere is about 100 times thinner than Earth's --

11
00:00:32,000 --> 00:00:34,000
so heat from the sun can easily escape.

12
00:00:34,000 --> 00:00:35,000
How easily?

13
00:00:35,000 --> 00:00:37,000

If you were standing on the Martian equator at noon,

14

00:00:37,000 --> 00:00:41,000

it would feel like summer at your feet, but winter near your head!

15

00:00:41,000 --> 00:00:43,000

At night, it's even worse:

16

00:00:43,000 --> 00:00:47,000

when the sun goes down, temperatures can plummet to negative triple digits!

17

00:00:47,000 --> 00:00:50,000

And beware of cold winter nights, when it could drop even lower!

18

00:00:50,000 --> 00:00:53,000

So if you plan to visit, better bring a space suit to keep warm --

19

00:00:53,000 --> 00:00:55,000

Mars really is a pretty 'cool' planet.