



1
00:00:00,400 --> 00:00:01,267
[■]

2
00:00:01,300 --> 00:00:03,403
Mars in a Minute

3
00:00:03,436 --> 00:00:05,371
What's inside Mars?

4
00:00:05,404 --> 00:00:08,741
We know a lot about
what's inside Earth.

5
00:00:08,774 --> 00:00:11,744
But at Mars, we've only
just scratched the surface.

6
00:00:11,777 --> 00:00:15,848
To learn how Mars formed, we
have to study its deep interior.

7
00:00:15,881 --> 00:00:18,851
NASA's InSight lander was
designed to do just that

8
00:00:18,884 --> 00:00:21,788
by taking the planet's
"vital signs."

9
00:00:21,821 --> 00:00:24,490
Listening for its "pulse" or
seismic activity,

10
00:00:24,523 --> 00:00:27,160
including any "marsquakes."

11
00:00:27,193 --> 00:00:28,428
Taking its temperature

12

00:00:28,461 --> 00:00:32,198

to see how much heat is
flowing out from deep inside;

13

00:00:32,231 --> 00:00:35,334

And checking its "reflexes" to
see how much the planet wobbles

14

00:00:35,367 --> 00:00:37,003

as it whips around the Sun.

15

00:00:38,070 --> 00:00:39,072

These all provide clues

16

00:00:39,105 --> 00:00:42,108

to what the planet is
really like inside.

17

00:00:42,141 --> 00:00:44,210

So what's inside Mars?

18

00:00:44,243 --> 00:00:45,778

InSight can help us find out

19

00:00:45,811 --> 00:00:47,947

by giving Mars its first
thorough checkup

20

00:00:47,980 --> 00:00:51,250

since it formed 4.5
billion years ago.

21

00:00:51,283 --> 00:00:52,351

The more we learn,

22

00:00:52,384 --> 00:00:54,720

the better we'll understand
all the rocky planets

23

00:00:54,753 --> 00:00:57,356

-- and the history of
our solar system.

24

00:00:57,389 --> 00:00:58,558

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