



ASTROBIOLOGY at NASA  
LIFE IN THE UNIVERSE



#AskAstr<sup>🌌</sup>Bio

1  
00:00:04,850 --> 00:00:02,570  
what is an unbelievable science fact

2  
00:00:07,430 --> 00:00:04,860  
that still blows your mind that life is

3  
00:00:11,810 --> 00:00:09,350  
done a lot of work to understand the

4  
00:00:13,370 --> 00:00:11,820  
origin of life and we know a lot about

5  
00:00:14,930 --> 00:00:13,380  
terrestrial biology all the way back

6  
00:00:17,689 --> 00:00:14,940  
down to the last Universal common

7  
00:00:19,730 --> 00:00:17,699  
ancestor which is what 3.8 billion years

8  
00:00:22,070 --> 00:00:19,740  
ago but you know the earth started

9  
00:00:23,750 --> 00:00:22,080  
having water further back in time and

10  
00:00:25,370 --> 00:00:23,760  
there's this Chasm of knowledge between

11  
00:00:27,830 --> 00:00:25,380  
I think I said before like this early

12  
00:00:30,050 --> 00:00:27,840  
geochemical reactions to this chemical

13  
00:00:32,030 --> 00:00:30,060

system capable of Darwin Evolution and

14

00:00:34,130 --> 00:00:32,040

and so like

15

00:00:36,590 --> 00:00:34,140

blows my mind that I actually did that

16

00:00:38,990 --> 00:00:36,600

that that actually occurred biology is