



## **ESA/Hubble**

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Space Sparks Episode 2	Visual Notes
0:00-0:10 Intro	SPACE
0:11-0:23 The NASA/ESA Hubble Space Telescope has seen a new atmosphere forming on a rocky exoplanet.	
0:24-0:55 The planet GJ 1132 b has a similar density, size, and age to those of Earth.  The exoplanet appears to have begun life as a gaseous world with a thick blanket of atmosphere.  To the surprise of astronomers, new observations from Hubble have uncovered a secondary atmosphere that has replaced the planet's first atmosphere.	
0:56-1:18 The new atmosphere is rich in hydrogen cyanide, methane and ammonia, and also has a hydrocarbon haze.  Astronomers theorise that hydrogen from the original atmosphere was absorbed into the planet's molten magma mantle and is now being slowly released by volcanism to form a new atmosphere.	
1:19-1:33 This is the first time that scientists have found evidence of volcanic activity reforming the atmosphere on a rocky planet around a distant star.	

Total Time: 01:43