



1  
00:00:05,430 --> 00:00:03,429  
astronomers using nasa's chandra x-ray

2  
00:00:07,590 --> 00:00:05,440  
observatory have found evidence for the

3  
00:00:10,470 --> 00:00:07,600  
youngest black hole known in our cosmic

4  
00:00:12,709 --> 00:00:10,480  
neighborhood a mere 30 years old that

5  
00:00:15,669 --> 00:00:12,719  
provides a unique opportunity to watch a

6  
00:00:18,510 --> 00:00:15,679  
black hole develop during its infancy

7  
00:00:22,790 --> 00:00:18,520  
the object is a supernova known as sn

8  
00:00:24,550 --> 00:00:22,800  
1979 c that lies in the galaxy m100

9  
00:00:26,550 --> 00:00:24,560  
these results could help scientists

10  
00:00:29,029 --> 00:00:26,560  
better understand how massive stars

11  
00:00:31,269 --> 00:00:29,039  
explode which once leave behind black