

Name _____ Date _____ Period _____ # _____

Topic 3 - Deep Space Astronomy - Flipped Videos 1 and 1a

1) The Big Bang (6:56) Michael Sammartano

<https://www.youtube.com/watch?v=ZBDpBA0x2w0>

What question does the Big Bang Theory answer? (0:28)

What happens to the spectra of light from all 3 of the galaxies (1:11)

When light is shifted towards the red end of the spectrum it means that the object is moving _____. (1:23)

Redshift is a _____ galaxy. (1:26)

LeMaitre concluded that the Universe is _____ (1:44)

Hubble's Law (2:35)

All galaxies are _____.

The further away they are, _____

When the entire Universe was crammed into one point it was known as a _____. (3:06)

The Big Bang Theory (3:48) Pause the film and copy the definition

This event most likely occurred between _____ and _____ billion years ago. (3:57)

This theory is largely based on the observation of

_____ (4:13)

1a) Evidence for the Big Bang (3:48) Amy Meyers, M.S.

<https://www.youtube.com/watch?v=1sFQCf95CDg>

Evidence for the Big Bang (1:45)

1

2

3

Longer wavelengths of visible light are _____. (2:52)

Cosmic Microwave Background Radiation (4:44) (CMB or CBR)

In 1965 what astronomers discovered Cosmic Background Radiation in Crawford Hill, NJ? (5:19)

_____ and _____

What instrument did they use?

Bell Labs _____ .

Where are heavier elements like Iron, Silicon and Magnesium formed? (5:50)

Lesson Summary - (6:29)

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