

# The Origin and Evolution of the Universe (9.7)

<https://www.youtube.com/watch?v=kV33t8U6w28>

## Red Shift

- Discovered by \_\_\_\_\_
- Light from distant galaxies is shifting towards the \_\_\_\_\_ end of the EM spectrum
- This suggests that galaxies are moving \_\_\_\_\_ from one another
- This means the universe is \_\_\_\_\_

## Dark Matter

- Matter that has volume and mass & \_\_\_\_\_ all galaxies together
- Not visible with telescopes because it does not emit or absorb \_\_\_\_\_
- Little is know about it's properties, but it is the most abundant matter in the Universe

## Dark Energy

- Use to explain the increase in \_\_\_\_\_ of the Universe
- A force that \_\_\_\_\_ the force of gravity
- Dark Matter & Dark Energy seem to work \_\_\_\_\_ one another

## The Big Bang Theory

- Thought to have occurred around \_\_\_\_\_ billion years ago
- Began as a \_\_\_\_\_ (nothingness) and quickly expanded
- Extreme heat spreading \_\_\_\_\_ out rapidly
- Upon cooling, energy began to form \_\_\_\_\_ - hydrogen
- Matter eventually gathered to form galaxies, stars, solar system