

Watch the video and answer the following questions:

Name of video on youtube: "The Big Bang, Cosmology part 1: Crash Course Astronomy #42" by CrashCourse. Link: <https://www.youtube.com/watch?v=9B7Ix2VQEGo>

1. 2:10 Astronomer Vesto Slipher observed that galaxies were red shifted. What does redshift mean in terms of galaxies? (are they moving **away** from us or **towards** us)
2. 2:55 Einstein thought that the universe was static (unchanging). Did Georges Lemaitre **agree or disagree**? Did he propose that the size of the Universe was getting **bigger or smaller**? Circle the correct answers.
3. 3:20/3:40 Fill in the blanks relating to the work of Edwin Hubble and Milton Humason. "When they compared distances to the redshifts Slipher observed, they found that the \_\_\_\_\_ away the galaxy was, the \_\_\_\_\_ it was moving away from us.
4. 4:05 From the observations of the galaxy's we can conclude that the universe is \_\_\_\_\_ (expanding or contracting)
5. 4:20 If we rewind back in time this means that galaxies get \_\_\_\_\_ (farther apart **or** closer together)
6. 5:10 As all of the energy in the universe was squeezed into one place, would this mean the early universe was very \_\_\_\_\_? (hot **or** cold)
7. 5:14 When the universe was a tiny dot it would have been "unimaginably hellishly hot". Then, for some reason, it suddenly \_\_\_\_\_ violently and started \_\_\_\_\_ (expanded **or** contracted, warmed **or** cooled)
8. 6:05 How fast is the speed of light? \_\_\_\_\_
9. 6:40 Complete the sentence: "the \_\_\_\_\_ away something is, the \_\_\_\_\_ in the past we see it"
10. 7:50 In 1965 a pair of radio astronomers "discovered the \_\_\_\_\_ of the fireball left over from the birth of the Universe".
11. 8:20 This glow or cosmic background radiation was \_\_\_\_\_ (predicted **or** not predicted) by the big bang theory?
12. 8:30 The redshift of distant galaxies and cosmic microwave background radiation confirms that the big bang theory is \_\_\_\_\_ (correct **or** wrong)
13. 9:30 The space between the galaxies is \_\_\_\_\_? (expanding **or** contracting)
14. 11:00 Does the universe have a centre? \_\_\_\_\_
15. 11:50 What is our best estimate for the age of the universe? \_\_\_\_\_