

Discussion Questions

- 1) Why do spiral arms have a blue color?
- 2) Briefly explain why white-dwarf supernovae are useful for measuring cosmic distances.
- 3) Why does the merger of two spiral galaxies often trigger starbursts?
- 4) Briefly describe evidence that support the Big Bang theory.

5) Briefly describe two different ways of measuring the mass of a cluster of galaxies.

6) Explain how observations of white-dwarf supernovae provide information on the expansion of the universe when it was younger.

7) Briefly describe what you would see if your friend plunged into a black hole.

8) Describe what we mean when we talk about other dimensions and the arrow of time.