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Imax Cosmic Voyage Video

1. Who invented the telescope? What did he discover about our universe?
2. What comes into view “thirteen steps (powers of 10) past St. Mark’s Square”? At 15 steps?
3. What is a light year?
4. How far away are the nearest stars? How long would it take to get there with the speed of today’s aircraft?
5. Are galaxies flying towards each other, away from each other, or are they unchanging?
6. What lies15 billion light years from Venice?
7. Who perfected the early microscope?
8. What does DNA hold?
9. What particles lie within the atomic nucleus?

10.What is known as the “Big Bang”?

11.What is our galaxy called?

12.What are stars? What is a supernova? What does it emit when it explodes?

13.How many years passed between the Big Bang and the existence of humans?

14.What are black holes?

**Discussion Questions**

1. The movie opens discussing the early thinkers of Ancient Greece. What were some of their early beliefs that were proven scientifically centuries later?

 2. Explain the theory of the Big Bang that physicists make in this film.

3. How do scientists on this film theorize that life on earth started, from the hostile lifeless environment to sophisticated organisms?