

Name:

Date:

How the Universe Works: the Big Bang

1. What is everything in the universe made of?
2. What did Edwin Hubble discover in 1929?
3. Why are we looking at the past when we look at the stars?
4. What was the first force to emerge after the Big Bang? Why was that important?
5. What happened to the raw energy of the universe as it began to cool?
6. What is antimatter? What happens when there are equal amounts of matter and antimatter?

7. What was the first atom to form? What 2 other elements began to form by 3 minutes after the universe began to expand?
8. When did the universe become transparent?
9. What is cosmic background radiation and why is it important?
10. When did the first stars appear?
11. When did our sun appear?
12. What will eventually happen to our universe? Describe the two different ideas.