

**How the Universe Works:
Big Bang**

Name:
Period:

1. List the discoveries made by Edwin Hubble.
2. How do we know the age of our universe?
3. What is the hardest thing to grasp about the Big Bang?
4. What was the first force exerted from the Big Bang?
5. What would happen if there was too little of gravity exerted from the Big Bang?
6. What would happen if there was too much of gravity exerted from the Big Bang?
7. Define "plank time" (as best as you can).
8. What was known as the first matter of the universe?
9. What formula was produced by Albert Einstein?
10. How can the formula produced by Einstein be explained?
11. One thing that can destroy/alter the universe is?

12. Where is "The Collider" located?
13. 17,000 tons is equivalent to?
14. Anti-matter has what type of charge?
15. Where are the leftovers of matter and anti-matter?
16. As the universe cools/slows down, what element(s) begin to form?
17. How long did it take to slow down the movement of electrons?
18. How long after the 2001 launch of the "satellite" did astronomers get an image of the "age" of the universe?
19. How long after the Big Bang did our solar system form?
20. What is dark energy doing to the universe?