Big Bang Activity Quiz (15 points)

Name

- 1. What nuclear particles were first present before any elements formed?
- 2. Why could these particles not join to become new things at first—why did you need to move apart?

- 3. What was the first thing formed from two particles?
- 4. Give one way the nucleus you named in #3 formed:
- 5. Why was a positron (ping pong ball) sometimes thrown out of a group that formed (What change took place in the particle that emitted it?)
- 6. At what temperature did the first particles begin to join?
- 7. At about what temperature did most of the new particles form?
- 8. Name three other nuclei that formed early in the universe (not yet named)

_____, _____, _____, ______,

- 9. In how much time did all of these things form?
- 10. When we did the activity a second time, did we get the same result for the same people?
- 11. What particle were you in the model and what changes did you go through?

12. What was the Big Bang and what was the early universe like?

Bonus: Describe by <u>giving names and numbers of particles</u> one way to form a heavier particle than deuterium.