

# cLAB: Particle Research II - Fermilabyrinth

Apply what you've learned from the first Particle Adventure AND your critical thinking and reasoning skills to complete this activity at Fermilabyrinth.

1. Click here to go [Fermilabyrinth](http://ed.fnal.gov/projects/labyrinth/games/index1.html) or type this address in your Internet browser:  
<http://ed.fnal.gov/projects/labyrinth/games/index1.html>
2. **IMPORTANT:** First, enter your name and class period in the box provided.
3. Click on **Law 'n Order**
4. Click on the **Particle Families** computer
5. Play the game by following these instructions. Read the guide's message for hints.
  - **Choose a Level:** Begin by clicking on Intro and answer the question – MORE THAN ONE ANSWER MAY BE CORRECT. Click on "Check your Answer." If you are correct, click on Next Family at the bottom to go to the next question.
  - **Play a New Game:** Go all the way through the level. Your goal is to get as many Einstein Bucks as you can. Your grade will be based on how many you earn. CAUTION: Each time you check your answer, you lose Einstein Bucks!!
  - When you can't go any further on the first level, go to the next level, Geom1, then Geom2. Repeat this for each level that follows. Don't click on "Double Your Bucks" until the very end of this activity. When you get to the Physics level, follow these next instructions.
  - **Physics Level:** When you get to this level, each time you correctly answer each game, EVERY TIME, click on the girl and read carefully the explanation that goes with each answer to learn more about quarks. When you can't click on Next Family any more, go to Double Your Bucks.
  - **Double Your Bucks:** When you have finished the last level, Physics, and can't go any further, clicking Next Family won't take you to another question. Instead, click on "Double Your Bucks" to get even more Einstein Bucks. Read the text VERY CAREFULLY and answer the question.
  - **Print out your Bucks:** Click on Quit Particle Families and check OK to PRINT your Einstein Bucks. FIRST take a screen shot of the page, and then either print the page OR paste the screen shot in a Word doc and print that.
  - Click "Quit Particle Families" again to quit. You don't have to add your score to the High Score List.
6. **If you want a better score** – play the game again!! Your grade will be calculated by dividing your total score by 6000, the maximum number of points. Turn in your best score!

