



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

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| Name(s) Melody J. Espinoza | Project Number 22004 |
| Project Title Composition | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals My project was based on finding mathematical patterns in Bach's preludes and fugues.</p> <p>Methods/Materials I used the Excell program for designing the graphes, computer with attached printer, and music of Bach's Preludes and Fugues.</p> <p>Results There were mathematical patterns in Bach's Preludes and Fuges. In the first 31 measures the pattern stayed the same where the treble clef had 12 notes and the bass clef had 4 notes. The last 5 measures is where the pattern changed and the bass clef 17 notes and treble clef had 14 notes.</p> <p>Conclusions/Discussion My conclusion was that there were mathematical patterns in the Preludes and Fuges.</p> | |
| Summary Statement Finding mathematical patterns in Bach's preludes and fuges. | |
| Help Received Father helped design the graphs. | |