



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

Name(s) Anna Chang	Project Number S0409
Project Title Study Jams: The Effect of Words in Music on Reading Comprehension	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this study is to determine the effect of music, including the presence of words in music, on reading comprehension in high school students.</p> <p>Methods 3 short reading comprehension quizzes of similar difficulty, 30 test subjects (high school students), 2 audio files. 3 quiz trials per test subject -- each tested while listening to music without words, music with words, or no music. Time per quiz determined by length of audio file (4 minutes) or 4 minute timer for trial without music. Grade quiz questions to measure comprehension.</p> <p>Results Listening to music with words results in the worst reading comprehension. Listening to no music results in the best reading comprehension.</p> <p>Conclusions Multiple trials with different test subjects prove that listening to music with words has a negative effect on reading comprehension. It is concluded that studying with music, especially music with words, is not ideal for the majority of high school students.</p>	
Summary Statement I proved that listening to music with words negatively affects reading comprehension.	
Help Received None. I designed and performed the experiment independently.	