

Nov 30

Yaakov and Adar researched the experiment and wrote down information that we found onto a google docs. Completed the hypothesis, objective and materials.

Dec 12

Yaakov and Adar got set up on the science fair google classroom and the CYSF website. And started moving information from google docs to a slideshow.

Jan 11

Yaakov and Adar started setting up the experiment. Got the materials like the laser, photodetector, light collimator, and started to 3D print the laser and slit holder. Made a digital model of our experiment and then glued the photodiode amplifier to the plank of wood that we are conducting the experiment on.

Jan 22

Met with science fair coordinator to review logbook and current progress with suggested edits.

Jan 26 met at participants' households to do the experiment but we had a problem with the slits because they were too far apart from each other so we had to 3D print it again and do the experiment at a different time.

Feb 1, The reprint of the two slits did not print properly, because the 3D printer can not go into the amount of detail we need. We bought slits off of THORLABS that were very accurate.

Feb 17, We did the experiment with the slits purchased off THORLABS. We observed the interference pattern, and made an analysis and conclusion.

March 6, Cleaned up our google docs to get it ready to submit to the school science fair.

March 7, Had an interview with professors Micheal Potter and David Feder.

March 18, Work on improving our overall writing, and incorporating the notes we got back from the school science fair and the notes we took from our interview with the professors.

March 20, Met with science fair coordinator, and he helped us to prepare and work on submitting our information onto the CSYF website.

March 21, Finished submitting information to the CSYF website. Also created a slides presentation for our project and worked on incorporating notes from the professors interview into our project.