

GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR (GSDSEF)  
**PROJECT PROPOSAL/SIGNATURE\* FORM (GSDSEF-1, 2015)**

**This form must be completed and signed prior to starting project work. It must be placed in the student's notebook with an ABSTRACT OF THE PROJECT for the GSDSEF Screening Fair. (Use the "Tab" key to move from line to line)**

1. Project Title Nature Vs. Nurture: Why do I have glasses?

Is this a continuation of a previous project?  Yes  No

2. STUDENT'S NAME (Last, First, Middle) Verma, Shruti

2a. Partner's Name (for Senior Division 2 person projects only) \_\_\_\_\_

**EACH SENIOR DIVISION PARTNER MUST SUBMIT A SEPARATE PROJECT PROPOSAL FORM.**

3. Address, City, Zip 11667 Compass Point Dr. N #4, San Diego, 92126

4. Phone 858-780-6725 email readingshruti@yahoo.com

5. School Thurgood Marshall Middle School Grade 8

6. Teacher Mrs. Gillum

7. This project involves (check all that apply):

- Live Vertebrate Animals (GSDSEF-2, 2015)
- Humans as subjects, helpers, or interviewees (GSDSEF-3, 2015)
- Hazardous Substances (anything that could cause injury) (GSDSEF-4, 2015)
  - Chemicals
  - Infectious Agents
  - Bacteria, Fungi and/or Molds
  - Mutagenic Agents
  - Carcinogenic Agents
  - Teratogenic Agents
- Human or Other Vertebrate Tissue (GSDSEF-5, 2015)

8. WHERE REQUIRED (see #7 above), the following supplemental forms must be completed and included with the project proposal form (CHECK ALL THAT APPLY):

- Certification of Humane Treatment of Live Vertebrate Animals (GSDSEF-2, 2015)
- Certification of Compliance of Research Involving Humans (GSDSEF-3, 2015)
- Certification of Hazards Control (GSDSEF-4, 2015)
- Certification of Vertebrate Tissue Source & Safety (GSDSEF-5, 2015)

9. Location where experimental procedures will take place: Supermarkets and Optometrists

10. People, companies, etc. providing equipment, materials, workspace: LensCrafter, Sharp Rees-Stealy

Mira Mesa Optometry, Dr. Byron Newman, and Dr. Satya Verma

**11. Describe, in 200 – 250 words, the planned project/experiment and the procedures to be used:**

This epidemiological study hopes to find the causes of poor eyesight by asking different people, at random to fill out a questionnaire. This questionnaire must be made and include sections regarding the patient's eyesight (condition, prescription, and age acquired), their family visual history (whether or not their parents had glasses, what their condition was, and when they acquired glasses), and their environmental factors (TV Viewing and Computer Usage Time). This form serves partly as a consent form, therefore, no additional form asking for the participant's permission to fill out the first form will be required. Since the participant themselves fill out the form, they have the ability to choose whether or not they want to take it and what sections they do not want to answer. This questionnaire will be passed out at places such as supermarkets (Trader-Joe's, Walmart), school, and other social gatherings. Optometrists will then be visited to see whether they are willing to keep forms at their desks so that customers can fill them out. Forms will be given to the multiple optometrists that offer to help. After an adequate amount of forms is received (300+), these forms will be entered in a data table in an EXCEL document. Graphs will be made comparing multiple different factors. Interviews will also be held with optometrists across San Diego. These optometrists will be asked specific questions regarding their opinion on what is the main cause of poor eyesight. Their opinions will later be contrasted to the results reached by this project.

Just before the screening fair, attach a 200-250 word ABSTRACT of your project to this form.

\*Continue to next page for required Signatures

**GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR  
(GSDSEF) PROJECT PROPOSAL/SIGNATURE FORM (GSDSEF-1, 2015)  
REQUIRED SIGNATURES:**

**Student:**

I have read the *Rules and Regulations* of the GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR and certify that my project complies with them. I understand that failure to meet the terms of these rules and regulations will result in the disqualification of my project.

SENIOR DIVISION: GSDSEF forms meet the requirements of California law; therefore, all Senior Division students agree that, should they be selected to compete at the 2015 Intel International Science and Engineering Fair (Intel ISEF), when they sign all required Intel ISEF forms they will predate them to agree with the date on this form.

*Shrutika V*                      9/2/14

*Student Signature/Date*

**Parent/Guardian:**

I am aware of all potential safety hazards connected with this project, approve the precautions being taken to ensure my student's safety and will, when appropriate, provide guidance and/or supervision. I understand that failure to comply with *Rules and Regulations* of the GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR will result in the disqualification of the project.

*R. Verma*                      9/1/14

*Parent Signature/Date*

**Teacher:**

I approved this project prior to the student beginning work on it and verified that it complies with the *Rules And Regulations* of the GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR. Any concerns about the project's design, appropriateness, safety, or legality were submitted to the GSDSEF Scientific Review Committee (SRC) for approval prior to allowing the student to proceed. I understand that failure to comply with the Fair's *Rules And Regulations* will result in the disqualification of the project. I will provide all needed supervision (other than that specified on other included forms) and will ensure that this proposal and all required supplemental forms are included in the student's notebook at the screening fair. I will have the student, if invited to apply for entrance to the GSDSEF, submit all SRC requested certification forms with their 2015 *Application for Entrance*.

*ESPG/L*                      9-1-14

*Teacher Signature/Date*

**Additional Advisor (if required)**

When certification forms (GSDSEF 2, 3, 4 or 5, 2015) are signed by someone in addition to the science teacher, a signature here ensures that the procedures described on these forms will be followed.

*Additional Advisor Signature/Date*