Stuyvesant High School's Summer Research Contest!!!

In continuing efforts to improve the human condition through research, the Regeneron Research program is sponsoring, for the first time ever, a contest awarding outstanding research among our student body.

<u>Prizes:</u> **$100 for the winners representing each grade level (9th, 10th, 11th), real course credit plus a very special awards ceremony**

<u>Acceptable disciplines:</u> **Biology, Psychology, Earth Science, Chemistry, Physics, Computer Science, Mathematics, and Social Studies**

<u>Project ideas:</u> **Refer to the next page for resources and suggestions**

<u>Requirements:</u> **Each project submission must be accompanied with a typed paper in standard format (abstract, introduction, results, conclusion, discussion)**

<u>Deadline:</u> **September 12, 2021 at 11:59 pm (send PDF file to jeconome@stuy.edu)**

<u>Questions/Concerns:</u> **Please e-mail/talk contact Mr. Econome**

STUYVESANT HIGH SCHOOL

Principal Yu

Bio-Chair Ms. Fong

**Mr. Econome
Regeneron Research Program
Biology Department - room 704
jeconome@stuy.edu**

Summer research project ideas and resources...

Project ideas: All hypotheses need to be testable and <u>quantifiable</u>; science's success relies on objectivity which is best achieved through numbers (to determine significance of results). The following are some issues that need to be and are being addressed by concerned scientists like you:

students' academic or personal struggles – pollutants in our water or air - increased crime activity - poor sleep, diet, health habits – inefficient alternative fuels or use of energy – undeveloped robot/artificial intelligence – disappearing ecosystems/species – ineffective antiseptics – earlier disease diagnoses

Resources: Take a look at these links and get started creating a project idea!

http://www.all-science-fair-projects.com/
https://www.societyforscience.org/research-at-home/
https://www.sciencebuddies.org/science-fair-projects/project-ideas/high-school
https://learning-center.homesciencetools.com/article/high-school-science-projects/
https://www.quora.com/What-are-some-good-high-school-computer-science-research-projects-I-can-do
https://www.thoughtco.com/high-school-science-fair-projects-609076
https://sciencebob.com/science-fair-ideas/ideas/

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Here's a past letter I wrote promoting research project ideas...

Computer programming smart-tutor, health-watch calorie counter or weather watcher

Mathematics create an algorithm of differently weighted variable to predict the outcome of real, relevant events like academic success, long-term relationships, the emergence of a new species

Engineer design & build more energy efficient building or automobile, more protective face mask for surgeons, more effective water purifier (we have 3x 3D printers)

Ecology characterize a failing ecosystem and generate solutions for greater species diversity

Evolution identify a new species of plant or insect through PCR analysis

Molecular develop new ways to quickly diagnose an early-stage disease through ELISA

Social identify key factors in successful relationships, self-improvement or happiness through quantitative surveys

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