

9th Grade Research Parents Informational Session

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The POBJFK **Research Program** provides students with *multiple opportunities* to develop lifelong research skills through a series of courses designed to **produce long term research projects** in a variety of topics/fields.

All courses provide opportunities for practical applications, and encourage participation in regional, national, and international science, math, social science and historical competitions



POBJFK Research Teaches Life Long Skills

Reading and annotating scholarly journals

Critical thinking

Inter and intrapersonal communication

Professional presentation styles

Collaboration and teamwork

Analyzing sources and evaluating multiple perspectives

Data analysis

Time management

Practical Lab Skills

Written and oral communication

Database navigation

Resume building

Creating evidence based arguments

Different POB Research Opportunities

The Natural Sciences

investigate real world challenges using the scientific method with a focus on conducting hands-on scientific experiments

- Physics, Biochemistry, Environmental Sci, Engineering, Math, Comp Sci, etc.

The Social Sciences

predict and explain human behaviors and psychological states through the empirical observation of society and human relationships

- Psychology, Sociology, Neuroscience, Political Science, etc.

The Humanities

understand human reactions to events and experiences through a critical and analytical approach of literature, text, and art rather than statistical methods

- Philosophy, Rhetoric, Visual and Performing Arts, etc.

Typical Four-Year Research Program Pathway

9th
grade

Foundations of Research
1 credit, honors weighted

10th
grade

Introduction to
Social Science Research
1/2 credit, honors weighted

Research in Practice -
STEM
1/2 credit, honors weighted

11th
grade

Capstone Advanced Placement Research
1 credit, AP weighted

12th
grade

Advanced
Social Science Research
1 credit, honors weighted

Advanced STEM
Research
1 credit, honors weighted

Examples of Previous Freshman Created Projects

Natural Sciences

- **Impact of Acoustics on Metabolism and Stress Responses in *Lolium perenne***
- **The Combined Effect of Ampicillin and Phages on the Population of Ampicillin-Resistant *Escherichia Coli***
- **Manipulating the Diet of Earthworms to Maximize Plant Growth in Simulated Martian Soil**
- **Impact of Increasing GLocal Temperatures on Defense Mechanisms in Bioluminescent Dinoflagellates**
-

Social Sciences

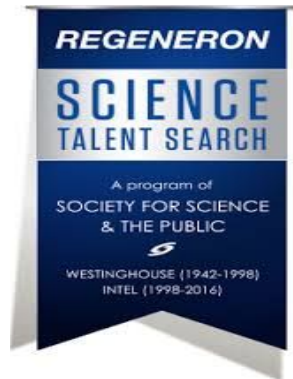
- **The Impact of the Foreign Language Effect on the Manifestation of Racial Biases in News Media**
- **Measuring the Impact of Cross Modal Associations of Olfaction on Declarative Memory**
- **The Effect of Parental Acculturation on Perceived Approachability on Moral Guilt in Adolescents from Immigrant Parents**
- **How Cognitive Ease with Political Terminology Influences Judgement and Decision Making**

In-House STEM Research Lab



Utilizing our School Website

- 2023 Research Symposium
- Summer Research Opportunities
- Information on Local, State, and National research competitions



Role of the Freshman Research Parent

Encourage students to be resilient and work independently

Help your child be mindful of important deadlines

Don't be afraid to ask questions. We all have the same goal - success for our students!

Follow the POBJFK Research program on twitter @pobjfkR

