



CARMEL SCIENCE RESEARCH

2018 Cohort
Science Research Application

Submit the following to Ms. Monaco in room 201 or mailbox
by **Wednesday, April 25:**

- 1. Two Essays*
- 2. Teacher Recommendation*
- 3. Two Article with Summaries*
- 4. Four Possible Research Questions*
- 5. Signed Parent/Guardian Letter*

Note: Potentially, student could be asked to come for an interview.

Pre-requisite: Successful application process, teacher recommendation and a minimum of 85% class average in all Regents math and science courses. Co-requisite: Maintain an 85% average in all Regents/Honors level math and science courses.

**Science Research Application
Carmel High School**

Applicant Name: _____

Email: _____

Phone: _____

Mailing Address: _____

Part I – Essays: *Complete and hand in the 2 separate essays. The essays must be typed, double spaced with a size 12 point Times New Roman font and standard 1 inch margins. Each essay must be a minimum of 300 words. Attach the documents to this application.*

1. What do you expect science research to be like? Why does this appeal to you? What qualities do you have that will contribute to your success? What qualities might interfere with your success? What does work ethic, integrity and scientific attitude mean to you? Tells us about yourself and your interests.
2. What topics, interests or devices have particular attracted your attention? If money and abilities to travel were no obstacles, what would your research topic (project) be? Why?

Part II – Teacher Recommendation: *It is the responsibility of applicants to provide teachers with the recommendation form (attached) and ensure that they are submitted by teachers prior to the application deadline. A minimum of 1 teacher recommendation is required.*

Part III – Read: *Read at least 2 articles (two-pages minimum each) from a variety of popular periodicals (magazine, newspapers, books, etc.) related to your area of interest. Be sure all sources are considered credible. Topics should fall into one or more of the following suggested categories: Engineering; Space Science; Genetics; Chemistry; Physics; Medicine; Computer Science; Math; Psychology and Behavior; Sociology; Botany (plants); Zoology (animals); Ecology and Environmental Science. Make a copy of each article, then read and highlight it. Write a 100-word, typed summary for each article on separate paper. Attach the summary to the highlighted article. The more technical and sophisticated articles you read – like those from Science News, Scientific American, Discover, Science, etc – the higher your assignment will be rated. You may read any articles that are interesting to you one one or several topics. Be sure to include a copy of the article and your typed summary to this application.*

Part IV – Possible Research Questions: *Based on your readings and on-line searches, develop at least 4 questions (the more the better at this point) that you are genuinely curious about that could lead to your research topic.*

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

**Science Research Application
Teacher Recommendation Form**

*Thank you very much for taking the time to provide me with information about a potential science research student! All information provided will be kept confidential. Please answer the questions below and return this form to Ms. Monaco in room 201 or mailbox **Wednesday, April 25.***

Applicant Name: _____

Recommending Teacher's Name: _____

How do you know the student: _____

Please comment on the specific behaviors listed below and use the following numbering system:

1-Poor 2-Fair 3-Average 4-Above Average 5-Top 10%

_____ 1. Student is able to turn in assignments on time and well done.

_____ 2. Student is consistent in all areas of your class.

_____ 3. Student is conscientious and attempts to work to fullest potential.

_____ 4. Student does well on quizzes, tests, and examinations.

_____ 5. Student demonstrates good writing ability and reading ability.

_____ 6. Student shows enthusiasm and excitement toward science and/or your subject.

_____ 7. Student shows initiative toward work and has the ability to problem solve.

_____ 8. Student comes to class every day.

_____ 9. Student exhibits the ability to work independently.

_____ 10. Student is able to receive and respond to criticism positively.

Please provide any additional comments that may assist me in my decision making process (optional).

*Science Research Program
Carmel High School*

Dear Parents & Guardians,

Your child has expressed interest in the Science Research Program offered to students at Carmel High School entering their sophomore year. This three-year program is designed to provide students with an understanding of research methodology in the natural, social, or physical sciences. Students will earn honors standing and possible college credit through their participation in the program. Please read the information below as it will give you a better understanding of what is required for students to be accepted and successful, once enrolled (Note: There are limited openings). In order to be considered for placement in science research, students must do all of the following:

- Submit the *Science Research Application* to Ms. Monaco in room 201 or Ms. Monaco's mailbox by **Wednesday, April 25**. The quality of this assignment will be used to select students for acceptance to the program. Potentially, student could be asked to come for an interview.
- Submit the *Parent/Guardian Letter* with signatures to Ms. Monaco in room 201 or Ms. Monaco's mailbox by **Wednesday, April 25**
- Attend (with at least one adult) Carmel's Science Research Symposium in the CHS Library on May 17th from 6:30 – 8:30 pm. Students are encouraged to bring their entire family and even friends!
- Complete a *Science Research Summer Assignment* which is due September 1, 2018 (first day of sophomore year)

A student's success in science research requires dedication and parental support which depends on the following:

- Access to the internet through a home computer with a flash drive and an email account
- Commitment to enroll in a statistics course during the junior year
- Transportation to college libraries, research laboratories and competitions
- Supplies which include: 3-ring binder (D-type), research notebook, Highlighters, and flash drive
- Computer software for word processing (ie: WORD), statistics (ie: EXCEL) and making PowerPoint presentations

Complete and sign the bottom half of this form. Your signature indicates commitment to ensure the above.

Student name (please print)

Student email

Street mailing address (print neatly)

City

State

Zip code

Parent/Guardian name (print)

Parent/Guardian signature

Parent/Guardian phone

Parent/Guardian email

PLEASE KEEP THIS PAGE FOR YOUR RECORDS

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