

Greetings families! This summer, Phillip O Berry Academy of Technology invites you and your child to apply for week long, customized learning experiences in Science, Technology, Engineering and Mathematics (STEM). From science of athletic practices to applying epidemics in health issues to history and society, we are offering a variety of "STEMulating" experiences for your child to grow in mentally and physically. Specifically, we are offering the following camp titles and corresponding descriptions:

Week 1: June 16-19, 2014
Session A: Grades 6-8 Session B: Grades 9-12

Camp Epidemiology: Participants will learn the basics of pandemics and epidemics from a scientific and historical perspective while performing investigations and special projects in Cholera Research! (Sessions A & B)



Science of an Athlete (Football): Participants will learn how to develop their own nutritional and training plans to enhance their performance in football. Students will engage in various experiments (eg. Making your own Gatorade) & specialized training sessions to optimize their performance on the field. (Sessions A & B)

Week 2: June 23-26, 2014
Session A: Grades 6-8 Session B: Grades 9-12

Camp Cancer: Participants will learn about the biology of cancer and how current medications work to minimize their growth and spread. Students will apply their learnings to investigations and a special project on cancer and its impact on society. (Sessions A & B)

Science of an Athlete (Basketball): Participants will learn how to develop their own nutritional and training plans to enhance their performance in basketball. Students will engage in various experiments (eg. Making your own Gatorade) & specialized training sessions to optimize their performance on the court. (Sessions A & B)

Week 3: June 30-July 2, 2014
Session A: Grades 6-8 Session B: Grades 9-12

Camp Nuclear Chemistry: Participants will learn the science behind nuclear weaponry and develop a historical & present day appreciation for its use in defense. (Sessions A & B)

Science of an Athlete (Soccer): Participants will learn how to develop their own nutritional and training plans to enhance their performance in soccer. Students will engage in various experiments (eg. Making your own Gatorade) & specialized training sessions to optimize their performance on the field. (Sessions A & B)



Week 4: July 7-10, 2014
Session A: Grades 6-8 Session B: Grades 9-12

Camp Parasitology: Participants will learn how geography, trade and human travel influences the spread of parasites throughout the world. Students will engage in various school and citizen science projects to see how parasites impact everything from an ant to an entire country. (Sessions A & B)

Science of an Athlete (Track): Participants will learn how to develop their own nutritional and training plans to enhance their performance in track. Students will engage in various experiments (eg. Making your own Gatorade) & specialized training sessions to optimize their performance on the track.

Special Projects Camps
Weeks 5-6: July 14-24, 2014
Session A: 6-8 Session B: 9-12 Session C: 6-12

Special Projects in Lab Bench Research: Participants will launch independent projects in hot topic molecular research fields such as virology and parasitology. This is a great opportunity for science fair enthusiasts to complete a project for next year's regional science fair. This camp includes one field trip related to the area of research. (Session C)

Special Projects in Public Health: Participants will receive hands on experiences in Public Health research while developing a unique connection to social and history projects. This camp includes one field trip related to the area of research. (Session A and B)

Special Projects in Research and Personal Training: Participants will explore the other side of athletics through exploring personal training and how it relates to STEM areas. This camp includes one field trip related to the area of research. (Session C)

Camp Logistics & FAQ:

Q: What are the hours of the camps?

A: All camps run between the hours of 8 am – 2pm each day.

Q: Can rising 6th through 12th graders participate?

A: Yes, students who are entering the grade levels specified for each camp in the fall may apply and participate.

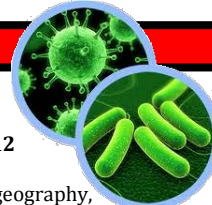
Q: Are there any associated costs with camp?

A: There are no direct costs associated with student attendance to the camp. There may be however costs for required materials by the camp instructor(s).

Q: Will transportation, breakfast & lunch be offered?

A: Yes, all camp attendees will be provided with free transportation and meals during camp hours.

Note: All camp sessions will be capped at 15 students!



Application: Deadline May 24, 2014

Name: _____
 Grade: _____ School: _____
 Address: _____
 Phone: _____
 Email address: _____
 Preferred Method of Contact: _____
 Parent/Guardian Names: _____
 Parent/Guardian Email: _____
 Current Math and Science Courses: _____

Current Grade in Science Course: _____ Math Course: _____
 Extracurricular Activities: _____

Career Aspirations: _____
 Which summer enrichment opportunity are you applying for?
 (Check all that apply)

Camp Title	Session A	Session B	Session C
Camp Epidemiology			
Athlete Science (FB)			
Camp Cancer			
Athlete Science (BB)			
Camp Nuclear Chem.			
Athlete Science (Soc)			
Lab Bench Research			
Public Health Project			
Personal Training			
Camp Parasitology			
Athlete Science (Track)			



Short Response Question: Please select one of the following questions and respond to it in exactly 250 words for each camp that you are applying for. Attach responses to your application.

- 1) What are your career aspirations and how do you anticipate that this camp experience will aid in your growth towards this career?
- 2) Why are you interested in attending this summer camp?
- 3) How do you define S.T.E.M and how do you envision this camp experience developing you in each of these areas?

For Lab Bench Research Camp Applicants only: Please respond to the following question in exactly 300 words.

- 1) Identify one recent breakthrough in STEM (specifically one related to the development of new drugs) and discuss its potential impact on a topic that you are potentially interested in researching during your 3 week experience.
- 2) Please obtain a letter of recommendation from a STEM teacher at your school to support your candidacy for the research component of this program.

Please read and sign below:

 If selected for the summer camp to which I am applying, I agree to complete the program in its entirety.

Meet your Camp Instructors!

Name:

Coach Alex Bravo

Certifications:

Physical & Health Education

Currently teaches:

Team Sports

Years of Experience:

13



Name:

Coach Rudolph Brown

Certifications:

Health & Physical Education

Currently teaches:

Physical Conditioning

Years of Experience:

20

Name:

Mr. Timothy Guilfoyle

Certifications:

NBCT & Biology

Currently teaches:

A.P Biology, Anatomy &

Physiology and Microbiology

Years of Experience:

22



Name:

Mr. Drew Hammill

Certifications:

Social Studies

Currently teaches:

U.S History

Years of Experience:

6

Name:

Mrs. Amanda Murphy

Certifications:

Public Health & Nutrition

Education

Currently teaches:

Chemistry

Years of Experience:

4 Years Nutrition Education

1 Year Chemistry



Questions?
Inquiries?
Please contact

Ms. Tamica Stubbs
Camp Coordinator

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Mr. Walter Hall
Camp Administrator
Walter.hall@cms.k12.nc.us

