**STUDENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_GRADE: \_\_\_\_\_\_\_\_\_\_\_**

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**BALDWIN HIGH SCHOOL**

2017-2018

**GIFTED ENRICHMENT OPTIONS**

**CHECK YOUR CHOICES OF INTEREST AS YOU COMPLETE THIS FORM. PLEASE RETURN ATTACHED FORM TO Room 203 BY *Friday, SEPTEMBER 22, 2017* \*\*\***

**1) \_\_\_\_\_ Academic World Quest:** sponsored by the World Affairs Council of Pittsburgh, Academic World Quest is a knowledge-based competition with questions focusing on international affairs, current events, the global economy, geography, world history, and general knowledge about the world. February 2018. Team of 4 students

**2) \_\_\_\_\_ ACE Mentoring Program:** ACE is an acronym for architecture, construction, and engineering. The program's mission is to enlighten and increase the awareness of high school students to career opportunities in architecture, construction and engineering and related areas of the design and construction industry through mentoring by industry professionals — architects, interior designers, engineers, construction managers, college and university representatives. It is an after school program every other Wednesday from 4-6 pm. Register online at [www.acementor.org](http://www.acementor.org) First mentoring session October.

**3) \_\_\_\_\_ America Bowl:** Baldwin hosts an elementary and middle school competition about American History. We need students to work the event. February 1 or 2, 2018?

**4) \_\_\_\_\_ American Math Competition:** The AMC 10/12 is a 25 question, 75 minute multiple choice examination in secondary school mathematics. The mission of the MAA's American Mathematics Competitions is to increase interest in mathematics and to develop problem solving through a fun competition.TBA

**5) \_\_\_\_\_ Apprenticeships:** Open to students in grades 9-11 who will be in grades 10-12 in September. Program is offered through the Allegheny County Intermediate Unit. Students must provide their own transportation. Each apprenticeship has different time requirements and is held during the school day. Apply in May for September participation.

**6) \_\_\_\_\_** **Battle Bots/Bot IQ:** We are recruiting members to be on the Battle Bots team to compete in the spring. You must be willing to stay after school weekly to build the robots as well as program. Prelims March 16-17, 2018 at WCCC - Finals at CalU April 13-14, 2018

**7) \_\_\_\_\_** **Calcu-Solve:** teams of four students complete against other schools in the area- math problems. Compete individually as well as a team @ Duquesne University

 9th/10th grade- October 12, 2017; 11th/12th grade- October 13, 2017

**8) \_\_\_\_\_** **JA Company Program:** After school, student run company. Typically meet once per week to design, develop, market and sell a product.

**9) \_\_\_\_\_** **Literature Festival Helpers:** During the South Hills Literary Festival we will need student escorts and helpers for the day while competition is happening. November 20,2017

**10) \_\_\_\_\_ Chain Reaction Contraption Contest:** The Chain Reaction Contraption Contest (CRCC) is a competition for students in grades 9-12 and is one of the National Engineers Week events. The CRCC fosters an interest in engineering by challenging students to create a machine that will accomplish a specific task using a series of steps. **The 2017-2018 task is to Weigh It!** Contest will take place Friday, December 8, 2017 at the Carnegie Science Center.

**11) \_\_\_\_\_ Duquesne University Academic Challenge:** Held sometime in March, students compete in teams of three through 8 rounds of competitions against other schools in the area.

**12) \_\_\_\_\_ Economics PA- Various Challenges:** Several different business challenges are offered throughout the year. If you are considering a major in business, come talk to me about getting involved in one of these opportunities.

* + - Business Plan Challenge- exposes students in grades 6-12 to the world of entrepreneurship and small business- Final Plan due April 2018
		- Economics Challenge Online- Teams of three to four students representing their high school to compete in an online competition to test their economic knowledge. Practice tests in Fall; Competition in Spring
		- Entrepreneurship Challenge- opportunity for students to engage in learning about business and entrepreneurship, and showcase their business ideas to a panel of judges.
		- Stock Market Game Program- An On-line Investment Simulation- Fall and Spring Dates

**14) \_\_\_\_\_ Faraday Lecture:** Free science and technology lecture held annually at

Soldiers and Sailors Hall in Oakland. This year: TBA.

**15) \_\_\_\_\_ Guest Speakers: -**Dates and Topics TBA- watch on Twitter, Remind and email

**16) \_\_\_\_\_ Hour of Code Week- Learn to write code. Learn to use Scratch 2.0 and App Inventor. December 4-10. All week during lunches or study halls.**

**17) \_\_\_\_\_ Independent Apprenticeships:** *Student-generated* apprenticeship. Open to any grade level. Student may shadow a professional in an area of interest. Student must provide his or her own transportation.

**18) \_\_\_\_\_ JA Titan Business Challenge:** an online program that allows teams of 3 high school students to act as chief executive officers of virtual manufacturing companies and compete to earn the highest performance index. Students compete for prices and the chance to move on to the Grand Championship. TBA

**19) \_\_\_\_\_ Job Shadows:** various job shadow opportunities offered throughout the year. Bayer, FedEx, Google, UPMC, American Eagle, Pitt, PCTV, Alcosan, etc…Watch emails and Twitter

**20) \_\_\_\_\_ KDKA Hometown Hi-Q:** Students compete in a team of three against two other high schools. Winning schools advance to further rounds sometime in the spring and then the final round in June. Requires independent study and preparation as well as strong background knowledge in many subject areas. Winning schools receive grants for their high school.

**21) \_\_\_\_\_ Kennywood Physics Day:** Held in May. Spend the day examining the physics and/or math of an amusement park. *Students must be in or have taken physics or pre-calculus*. May 2018

**22) \_\_\_\_\_ Math Madness Competition:** Students compete weekly online versus another school in the country. One round is held each month and will follow a round robin format to determine the school winner. March 2nd – April 13th.

**23) \_\_\_\_\_ Model Africa:** Students represent a country within the African Union and discuss issues affecting Africa while drafting resolutions to solve problems. March 2018

**24) \_\_\_\_\_ Model EU:** Students represent a country within the European Union and discuss issues affecting the EU while drafting resolutions. December 2017

**25) \_\_\_\_\_ Sea Perch:** Under water robotics competition. Weekly meeting sessions to construct robot. Local and regional competitions to compete at Finals.

**26) \_\_\_\_\_ Maker Faire Pittsburgh:** A community based learning event, showing what Pittsburgh peope can design, create, build, etc. October 13th, 2017 – Education Day, October 14th/15th, 2017

**27) \_\_\_\_\_ News Station Tours (Spaces as per requirement) Dates TBA**

**28) \_\_\_\_\_ North American Computation Linguistics Olympiad (NACLO):** Students will be competing in the open round of the linguistic challenge- contestants compete to solve compelling and creative puzzles in linguistics and computational linguistics-the top scores will be invited back to participate in the invitation round and a chance to represent the US at the international competition. TBA

**29)\_\_\_\_\_\_ PA Computer Fair:** The Pennsylvania High School Computer Fair is an annual event that highlights Pennsylvania high school students' application skills and computer knowledge. Students are able to unleash their creativity, learn how to convey information more dynamically, and enhance the learning process.  Teams must register on the High School Computer Fair website – March 2018? [www.pacomputerfair.org](http://www.pacomputerfair.org)

**30) \_\_\_\_\_** **Pennsylvania Junior Academy of Science:** Student participants in the PJAS program are encouraged to follow the scientific method to select a project, research the background, formulate a hypothesis, develop an experiment to prove or disprove the hypothesis, and to collect and analyze data from their experiment. The students then prepare a written report and give an oral presentation with audio visuals to their sponsor. Group projects are not permitted. (Ms. Neil)

**31) \_\_\_\_\_ Pittsburgh Regional Science and Engineering Fair:** Students develop a project by utilizing the scientific method. At the Science Fair, they exhibit their research on a presentation board and are interviewed by judges who consist of the area's most distinguished scientists and engineers. A workshop is offered to any interested student, parent and teacher in September to help prepare. (Ms. Neil)

**32) \_\_\_\_\_ Sam Rhine Genetics Conference:** A whole day of genetics instruction offering everything you wanted to know about genetics and more at USCHS during the school day. Must be taking AP or Honors level science classes or have a teacher recommendation. November 28th, 2017

**33) \_\_\_\_\_ SciTech Days @ Carnegie Science Center:** Students are given the opportunity to explore various technical fields of science and engineering such as robotics, forensic science (ballistics, DNA, fingerprinting), pandemics and viral tracking. This year’s programs include: Brain Surgery 2.0 and The FAB LAB experience. Nov. 10, 2017

**34) \_\_\_\_\_ Shakespearean Monologue Competition:** Students working alone or in groups choose a selection of Shakespeare to present at the Pittsburgh Public Theater- which includes a coaching session. Ongoing preparation- Competition in Late February 2018

**35) \_\_\_\_\_ Society of Women Engineers Career Day:** SWE’s annual high school day at CMU introduces *women* in high school to educational opportunities and careers in engineering and the applied sciences.  High school day is a day long workshop designed to stimulate interest in engineering and inform high school students about the various engineering disciplines and their impacts on every day life.  TBA

**36) \_\_\_\_\_ South Hills Literary Festival (in place of the English Festival):** Student work in teams of up to 5 students. Read 4 books, create a movie trailer to show at the Festival, guest author speaker, and special surprise. Limited to 2-3 teams so register early. Nov. 20, 2017

**37) \_\_\_\_\_ STEM Trip to Carnegie Science Center:** We will participate in various STEM opportunities presented by the Carnegie Science Center.

* **Engineer the Future –** Explore a career in engineering, interact with professionals in the field and check out the presentations at more than 50 event tables. Date TBD?

**38) \_\_\_\_\_ Surgery Viewings:** Open Heart surgeries at AGH. Students who are in upper level advanced science classes are eligible to participate…Looking into adding additional types of surgeries. (Limited Seats available) **Dates TBD**

**39) \_\_\_\_\_ TEAMS**: is an annual theme-based academic competition challenging students in grades 9-12 the opportunity to discover engineering and how they can make a difference in the world. Students become part of the action as they work together and use the practical applications of math and science to answer engineering questions about everyday world challenges. (TBD)

Students work together in groups of four to eight and answer engineering questions.

Students will apply their classroom knowledge during two 90-minute competition parts.

* Part 1 consists of 80 multiple choice questions.
* Part 2 consists of several open-ended questions, which expands students thinking and teamwork as members develop their best possible answer.

**40) \_\_\_\_\_ Westinghouse Science Honors Institute:** A free, advanced science and technology program available to 11th grades students only. Apply in September; meetings are held throughout the school year on various Saturdays. Applications due by September 15, 2017

**41) \_\_\_\_\_ Westinghouse Tour:** explore the Westinghouse Facility in Cranberry and talk to Engineers

**42) \_\_\_\_\_ World Affairs Council of Pittsburgh Events:** Various events throughout the year. Check out[www.worldaffairspittsburgh.org](http://www.worldaffairspittsburgh.org)

**43) \_\_\_\_\_ Vex Robotics Competition**

**\*\*\*As you read through this list of opportunities, please think about the ones in which you have the most interest, are enriching the areas of your strengths and/or career aspirations, and you will commit to completing. Although every attempt will be given, marking something does not automatically guarantee that you will be selected to participate in that activity or competition. Some of these opportunities have limited spots. Complete the attached sheet and turn it in to Mr. Hoffman. Make sure to mark in your packet which activities you have selected before you turn in the selection sheet.**