

**HADDON HEIGHTS JUNIOR/SENIOR HIGH SCHOOL
HADDON HEIGHTS, NEW JERSEY**

April 2017

**ACCOMPLISHMENTS, EVENTS, FACULTY HIGHLIGHTS AND INNOVATION REPORTS FROM
DEPARTMENT COORDINATORS' MONTHLY REPORTS**

Mathematics Monthly Report April

The Math department has continued to facilitate lessons infusing the Common Core Standards. All teachers spent time preparing students for the Parcc assessments. Below are the happenings by the individual Math teachers.

Mr. Simpson

Statistics students explored how to create sampling distributions from their own sets of data involving dice, coins, how much they slept. They also had to learn about the meaning of statistical significance.

AP Statistics students have closed out their fourth unit of significance testing proportions and means, as well as , constructing and interpreting confidence intervals.

AP Calculus has ended finding volumes of shapes using disk and washer methods as well as other applications of integration.

Mr. Medio

Algebra 2: In this class we are in the middle of the exponential and logarithm unit where students will complete applications including carbon dating, seismographs, and continuous interest.

Calculus: In this class we are ending the unit on derivative applications moving to the unit on antiderivatives and integration.

Mr. Yaniak

Algebra 1 Honors - We spent the month working with quadratic functions. Specifically, we found the AOS, vertex, and roots/zeros of a quadratic function. In addition, we constructed tables of values to graph the parabola of our given quadratic functions onto a coordinate grid. We will soon take our Chapter 9 assessment.

Algebra 1 CP - This month we focused on exponential functions. We worked with various exponent rules, graphed exponential function by making a table, and identified exponential growth/decay. In addition, we solved real-life word problems involving exponential growth, exponential decay, and compound interest. We will be taking our exponential test shortly, then followed with the introduction of quadratic functions.

Algebra 2 - During the month of April, we focused on exponential and radical equations. Specifically, we simplified/solved radical and exponential equations/functions. We also graphed exponential functions by creating tables and using the graphing calculator. We will soon be testing on exponential functions. Shortly after, we will move into logarithms.

Special Ed. Department - Monthly Report (April)

Theresa Klawuun - April Monthly Report

Environmental Science

This month the students have been learning about selective breeding and domestication. The students have used their Chromebooks to research the pros and cons of selective breeding. They have participated in a class discussion in the differences of selective breeding vs natural selection. The students investigated a breed of dog and identified the reasons why their breed was developed.

Monthly Report-April: K. Garofalo TAP

Geometry: Students just finished up the unit on square roots. To finalize the unit students took a "group" test where each student completed one problem on each page of the 7 different methods of solving square roots. They all got an opportunity to help out another student by doing the best that they could. So that the students did not do poorly on purpose, individual scores will be given as well.

Careers: The class is just tying up the section on education and training. Each student had to complete a chart on different types of training and education. The chart listed all the available services they could complete. They had to choose a "career" for each service and research it to see if it would work for them.

Environmental Science: The class finished up with a test on the parts of a flower and how it becomes pollinated. They will be moving onto the impact that the human population has on the environment.

US History I: US I is still working on the American Revolution. The class is doing a final project on the Revolutionary War. They will finish up the unit with a test at the end of the month.

English: The class finally finished the book *Forged by Fire*. They will finish up the book with a writing project and a final test.

Janis Gershowitz - April Monthly Report

It's Lit Circle time for the students in 7th grade Language Arts class. The Literary Circle is a collaborative and student-centered reading strategy. Students begin by selecting a book together then are introduced to the four jobs in the Literature Circles: Discussion Director, Illustrator, Vocabulary Enricher, and Bridge Builder. The teacher and student volunteers model the task for each

of the four roles, and then students practice the strategies. The process demonstrates the different roles and allows students to practice the techniques before they are responsible for completing the tasks on their own. After this introduction, students are ready to use the strategy independently, rotating the roles through four-person groups as they read the books they have chosen. As a culmination activity the students are creating their own book trailers to be presented to the class.

Brian Clark - April Monthly Report

US II Essentials:

Our US II Essentials students were studying about the causes of World War II and the involvement of each of the countries. We also identified the two fronts of the war; European Campaign and Pacific Campaign. We will be identifying the outcomes of the war and moving on to the Cold War.

WHAC:

In WHAC Essentials students have been learning about World War one and who are the countries involved. Students have identified the MAIN causes of the war and the immediate cause or spark of the war. We are now moving on to the Rise of Dictators.

CTE / Art Department Monthly Report 2016-17 April 2017

Manufacturing Technology: (Dean) The class is assembling their individual lamps, adding the electronics. They are applying a variety of finishes using the required application technique for the chosen finish. They have also started to research possibilities for the 2 foot design project. The 2 foot design must not use any more than 2 board feet of material and must have 3 different joints.

Advanced Manufacturing Technology: (Dean) The class is in the process of assembling their chosen clock designs. Most students are focusing on decorative trim pieces. Creating the trim pieces along with attaching them to the clock. This can make or break the project.

Construction Technology: (Dean) The class finished the balsa house section that was a scaled house section from the footings to the roof. They are currently learning the safe and proper use of hand, power, and machines that they will use on the full scale house project. All safety tests that pertain to specific machine must obtain a grade of 100% in order to use that machine. Any grade under 100% must be re-taken.

Intro to Technical Drawing / CAD: (Dean) The class just finished the Pringle Challenge design project. They were required to design a package that would protect a single Pringle chip that was sent through the mail. The volume and mass of the package was taken into consideration when grading the final design. Smaller and lighter to go along with an intact chip was the formula the students were striving for.

Transportation Technology: (Hinger) The Students have compile the 8 steps of design and watched "A Faster Horse" a documentary about the development of the Ford Mustang 1965-2015. They are currently sketching and drawing their designs for a CO2 racer. They will be creating a mockup of their design to have a 3-D example of their car.

Advanced Art/Portfolio Development: (Smargisso)

Based on the graphic work of Sandy Winters, Portfolio students have just completed a printmaking collab with individual narratives about eight characters in a surreal environment.

Advanced Art students just completed oil pastel illustrations for proposed US postage stamp designs based on the National Park system and it's anniversary. All students are now transitioning into the area of impressionism and painting with palette knives.

8th Grade Art: (Mills) Students are learning about Radial Design and Symmetry. Students used line to create an abstract design that radiates out from a center point. Color will be added by using value throughout design.

Intermediate Art: (Mills) Students completed silk screening and scratchboarding illustrations. Students were able to silk screen on clothing as well as paper making multiple prints of their design. Students also completed scratchboard illustrations of an animal. Students worked with positive and negative spaces. Currently students are learning about Salvador Dali and his surrealism style. Students will use hands to create a hand scape in a surreal/fantasy environment.

Intro to Art: (Mills)

Students completed Zentangles and learned about how art is used in a meditative state. Students created freely and created unique designs inside a letter that they choose to create. They came out amazing and are hanging in the hallway outside the art room!!

Currently students are working on caricatures. Students choose a famous celebrity to make a caricature of. They choose a celebrity that already had a unique look that they could exaggerate upon. The human face is made up of five simple shapes. Manipulating the foundations of the five simple shapes is the largest component in drawing a caricature. Students exaggerated facial features in size and angles. Students worked in a step by step process in creating their caricatures head. Students are currently working on the body and will color using chalk pastels.

Intermediate Art: (Smargisso)

After an intense study of figure drawing from life, with emphasis placed on proportion and gesture, students are now employing these principles to a figurative collage that reflects the activities of the individual artist. Using hand made marbled paper with positive and negative cut outs, the arrangement will define the very nature of compositional movement.

Graphic Design: (Ridinger)

In Graphic Design we've begun to cover Adobe Photoshop. Students have learned the uses of layers, brushes, and filters and how they can interact with one another in an image. Every day, students come in and do a "Do Now" that relates to the photoshop tools we are using. Currently we are in our typography unit. Students are researching a font they've been assigned and doing a project based on Charles DeMuth and his lettering. Some students have moved on to our song lyric illustration project as well. We will be creating our own logo's next while still focusing on how typography effects our projects as a whole.

Art 7: (Ridinger)

In 7th grade Art we just started our last cycle for the year. Students are learning how to draw their hands by looking at them. They are also learning how to draw them in different styles of line: Contour, Outline, and Structural lines. Our next project we will start is going to be Op Art. We will be learning how to create an optical illusion with the use of concave and convex lines.

Intro to Art: (Ridinger)

In Intro to Art we begin working on Caricature of someone famous. We talked about how we see people drawing Caricatures at fairs or down at the shore. Students had to emphasize a part of their famous persons' face; typically picking something that person was known for. Then, they used oil pastels to color in their character, giving it realistic colors by making sure the blend the pastels well. Since we got back from Spring Break and when students finished their caricature, they began working on a puzzle piece. This puzzle piece signifies bringing awareness to Autism. April is Autism Awareness month and the students are bringing awareness through their own expression on a giant puzzle piece. They are picking a theme or quote and showing how they can express awareness through that. We will be hanging these in the hallways once they are completed.

Google Practices: (Kent / Kearns / George)

Mr. Kearns' students have been gaining experience using Google Slides. Projects have included creating slide presentations with various layouts, themes, and content. Students have learned to insert text, graphics, links, images, video and learned how to apply a mask to images and how to apply transitions to presentations.

Accounting 1 : Part 2 (Kent)

Students analyzed how returns affect a business's financial condition. Whether it was returns and allowances regarding the purchase of inventory or the sale of merchandise, students were required to properly journalize and post the transactions. We also discussed stockholders' equity, the role of the board of directors, and declaring and paying dividends.

Web Design: (Kearns)

Students have been learning to create the divisions of web page layouts, and learning to create external style sheets. Students have gained experience in programming page layouts for varying screen sizes like desktop versus mobile devices.

Advanced Web Design: (Kearns)

Students have been learning how to code html5 audio and video content. Students are tracking their poll page rankings in Google to monitor how Google interacts with the page and what factors can change the ranking of a page in the search results.

SCIENCE**7th Grade Life Science - Richards**

The beginning of April was PARCC testing for the seventh graders. After that, they reviewed for and took the Third Quarter Exam. Our next unit was on Bacteria. We broke for Spring Break and then continued our study of Bacteria. Students did a lab involving natural selection and hand sanitizer - seeing how a 99.99% effective solution can lead to an overpopulation of harmful bacteria.

Microbiology - Kendra

Microbiology students have been furthering their investigations to the spread of infectious diseases and working on their lab techniques. Students have examined which antiseptics work the best for killing bacteria. Also, they have mastered the aseptic technique for transferring bacteria. In terms of infectious diseases, students analyzed the story of the first known carrier, Typhoid Mary, and watched the movie Contagion to investigate how the world would react to an epidemic of a new disease. Next up students will be studying the various types of bacteria and learning how to gram stain.

Environmental Science - Kendra, Blundetto, and Goodman

Students have been furthering their investigation of adaptations and how species change over time. We investigated what would happen to Earth and species if humans suddenly became extinct. Next, students examined what selective breeding is and the effects it has on living things. Students researched and constructed presentations on the origin of dog breeds. Also, students participated in an Environmental Science Eggstravaganza Egg Hunt before break which proved to be a great review of their knowledge and a team building activity!

Chemistry - Egner, Maunz & McCracken

This month students prepared for the Quarter 3 exam. Then they began either the Electrochemistry unit or the Thermodynamics unit. Students in chemistry learned how elements change their oxidation numbers when combined to create an electric charge. They completed a lab where they built different Galvanic Cells and measured the voltage that was created in each. In Honors Chemistry students used their Algebra skills to perform thermochemical calculations. They learned how different substances require different amounts of heat to change their temperature. This is a property called specific heat.

AP Chemistry - McCracken

This month was spent preparing for the AP Exam. Students completed practice problems as well as a full length practice test. Students have been working very hard in preparation for the exam. This is the culmination of all the hard work they have put in for the entire year.

Zoology - Blundetto & Maunz

This month students in zoology continued to explore the diversity in the animal kingdom while studying the anatomy, physiology and behavior of birds. This is a diverse group of animals our activities in class allowed us to dig deep into the many ways that birds are specialized for flight. We dissected owl pellets and then rearticulated the skeletons of mice, voles, and rats that students found in the pellets. Next we did careful and in depth dissections of pigeons. This allowed students to get an up close look at and hand on experience with the unique features found in birds.

Physics - Lynch/Maunz

The Physics classes began their studies of work, Power, Simple Machines and this month. Understanding work and power involves motion, and students performed an inquiry style lab analyzing how various machines provide mechanical advantage. One major topic of study was simple machine, which include an understanding of the laws of thermodynamics. We wrapped up the month taking the 3rd MP Exam, and beginning the study of waves.

AP Physics - Lynch

AP Physics students undertook the study of electricity this month. We began with concepts related to static electricity including Coulomb's Law, proceeding to the traditionally nebulous concept of electrical potential. Following static electricity students moved on to Ohm's Law and resistance, as well as resistors in circuits. We wrapped up the month discovering the properties of waves and how the knowledge of waves can be applied to sound. The students worked very hard and showed great maturity in covering these topics.

8th Grade Science-

The students in 8th grade completed their study of Heat and Thermal Energy transfer during the month of April. We then transitioned into Motion where we dealt with speed, velocity, and acceleration. This was supported by direct instruction and lab activities that involved recording and calculating changes in velocity and acceleration. The students took their 3rd Quarterly Exam and have since moved on to Forces, Newton's Laws, Momentum, and Collisions.

April 2017 Library Report

LIBRARY

During the month of April, the library has been busy with instructional visits, club meetings, and PARCC testing. The library was also closed for the spring break. Also due to the Chromebook initiative, many students drop in during library hours to pick up printed documents.

Class News

As of April 27th, there were 30 classes that used the Media Center, however, this does not include student use during PARCC testing. Assuming there are 20 students in each class, this works out to be approximately 600 students using the Media Center with a class during the month.

Mrs. McGill/Mr. Celli's English Essential classes finished their Medieval research and paper writing at the beginning of the month. Students also received librarian-led instruction about 3HS databases, MLA paper format, and finding direct quotes.

Mrs. Klawunn and Ms. Stoffel's science students used the library for testing and research.

The library was used as a PARCC testing location for six days.

Mrs. Carroll's 7th Grade Advisory class met in the library all month for lessons on presentation skills/methods.

To schedule your class for the Media Center, go to Google Drive and register under "Library/Media Sign-up 2016-17." Signing up to book your class is based on a first-come, first-served basis. We book up fast! Please note next to your name whether you need the computers, tables or both.

Need some help with a class research project, finding digital tools for your curriculum, or locating independent reading books for your students? Email me, Katie Carroll, at carrollk@hhsd.k12.nj.us, drop in, or call (ext.5511). I am here to help! My in-school hours are Tuesday, Wednesday, and Thursday.

Department News

Library Cafe'

The library is now serving coffee during the day (with the exception of breakfast and lunch). A cup of joe is \$1.00.

Displays

In order to celebrate National Poetry Month, a variety of poetry books were displayed.

Teen Top Ten books were also displayed.

Book Club

Book Club members met on April 12th to discuss *The Game of Love and Death* by Brockenbrough. Our last selection for the year is New York Times bestseller, *Ready Player One* by Ernest Cline. The book will be discussed on May 16th.

Battle of the Books

Battle members have been busy reading the selected battle books and creating questions. The team meets every Tuesday during junior high lunch. The competition is set for Tuesday, May 30th.

Usage Statistics 3.30.17-4.28.17

Class Visits: 30 classes x 20 students/class = 600 students serviced in the library with class instruction

Individual Student Usage: Many students rely on the Media Center to complete assignments, print assignments or to select books for pleasure reading. The individual student use statistics are:

Before School: student patrons 4

Periods 1-8: student patrons 72

After School: student patrons 2

Total number of student visitors: 161

Total number of Patrons (Independent and Classes): 678

Circulation Statistics (Items checked out to students): 148

Database Usage:

Facts on File: 1,141 searches

Grolier Encyclopedia: 168 GO searches

The Media Center is open daily from 7:30 AM to 3:15 PM. (On Tuesday, Wednesday, and Thursday the center is open until 3:30 PM.) We look forward to your visit!