

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

May 2018

Accomplishments, events, faculty highlight and innovation reports from Department Coordinator's Monthly Reports.

Social Studies **May 2018**

Much has been happening to keep the students focused on the goal of finishing the year strong. Education continued to move forward even though there were a few distractions such as class trips, and more testing. The month also contained an evening of awarding those who achieved academic success at the yearly award ceremony. The Social Studies department will continue to work towards the finish line by focusing on administering the final exams within the next few weeks.

Class News

Borden's Bulletin – Mrs. Bordens history classes completed a news broadcast of major events of the 60's. Each group was to present an "on location" news report regarding their topic. The broadcast was taped and then show in class.

Chambers' Chronicles- 10th grade students in Mr. Chambers' class have completed the Civil War and they have begun their study of the Reconstruction Era of the United States. So far, students have discussed and debated the civil rights bills that were proposed and whether or not the documents went far enough considering all of the atrocities that the former slaves endured. Their next discussion will revolve around the Jim Crow laws that were formed and the legalized segregation instituted by the American government.

The Krause Account –

The 7th Grade Social Studies classes are continuing with a chapter on Ancient Rome. First, students brainstormed about previous knowledge and learned about its geography. Next, they explored the legends of its founding and some of the early influences. Next, Rome's social classes were analyzed and the classes were then categorized by various types of jobs into their appropriate social classes. As the chapter progressed, the 7th graders defined the concept of a "republic" and compared/contrasted Roman and American types of republics. Rome expanded from a city-state to an empire, and the 7th graders mapped its expansion and identified the consequences (good and bad) of its growth. Most recently, the students learned about how Rome's expansion led to dictatorships and emperors. Are there specific and valid connections between the United States and Rome? Will the United States future be similar to Rome's past? What have we learned from Rome? Ask the 7th graders and see what they have to say!

J. Smith Journal -Eighth Grade Social Studies

The month of May started with a walk in the PARCC. The Eighth Grade seemed to take the state's standardized testing in stride. When they weren't testing, EGSS Scholars were taking part in our Mock Trial exercise. Students participated as plaintiff, defendant, witness, judge, jury, etc. They took careful notes on the testimony, evidence, and proceedings. When both cases were rested, it was time to think like a juror, consider the points of law, and render a verdict - in an argumentative essay, of course.

Then it was on to 19th Century US History. We started by formulating questions about John Gast's 1872 painting, *American Progress*. Considering the content of the painting - as well as who and what is missing - served as a springboard for our exploration of the era of Expansion. The EGSS Scholars completed an outline map that showed the growth of the USA from 1783-1853. Next, each base team was assigned one of the following topics: Expansion and Conflict, Slavery, Technological Innovations, and Leadership. They then accepted the challenge to create a website about their assigned topic and various subtopics of their choosing. Each team will present their websites in class.

Time is short, and summer will be here before we know it. We will squeeze in what we can about state and local government before we head to Trenton on June 14th to visit the State Museum, State House, and the Old Barracks. Then it is time for exams!

Esposito's Edition-

WHAC:

Students learned about the Berlin Wall and wrote letters from the Wall from the perspective of an East Berliner or West Berliner. They also learned about the Space Race, they were given one of 11 events of the Space Race and wrote a front page newspaper article about the event. As students presented the articles the rest of the class filled in a timeline comparing the Soviet advances to the United States advances.

US11:

Students learned about the Civil Rights Movement and completed detailed timelines of the 1950's and the 1960's events that lead to the Civil Rights Act of 1964. Students also discussed the theories surrounding the JFK Assassination. They researched different theories to determine what they believed actual happened that day.

Ms. Kelly's Communiqué –

Ap Euro: Students examined the various events that were part of the Cold War and it's fall and created various projects to showcase the important events of the cold war and Modern Europe. Students also examined the impact of the UN and the Creation of the European Union.

WHAC and H-WHAC: Students examined the world post WWII by primary source evaluation of the UN Declaration of Human Rights and the creation of a visual poster that illustrates one of the Articles. Students also examined the impact of the Cold War on the world and the fall of the Soviet Union. China was examined from the Civil War to the Modern Day with emphasis on the Cultural Revolution and its impact on the creation of Post-Mao China. Censorship issues were discussed and examined with the Tiananmen Square Massacre and the picture of Tank Man.

Martin's Memos – 10th grade students in Mr. Martin's US History 2 class have completed the Civil War and they have begun their study of the Reconstruction Era of the United States. American Wars has just finished presentations on their World War 2 Differentiated Instruction research project. Students are presently researching topics that they selected related to the Cold War. Topics that the students have selected include the founding of Vietnam, Soviet Occupation of Afghanistan, Space Race, and the Nuclear Arms race.

CTE / Art Department
Monthly Report 2017-18
May 2017

Manufacturing Technology: (Dean) The class is currently construction their 2 foot Design project. The product is manufactured from, no more than, 2 board feet of material. It must have 3 different joints, and will receive extra credit if it has a drawer and drawer guide system. This project requires the students to focus on increasing surface area of their chosen material. As always, safety and proper operation of all tools is stressed.

Advanced Manufacturing Technology: (Dean) The class is putting the finishing touches on their clock project. From assembly to finish preparation and finish application. They have spent many hours building their clock, now is the time to make sure that hard work was not wasted. Proper application of any chosen finish is important to achieve the desired look.

Technical Drawing / CAD: (Dean).The class is currently working on a unit on pattern development and creating stretch outs. This is important in the world of manufacturing when it involves shipping products. They are also continuing to draw assignment on CAD using the Solids applications.

Intermediate Art: (Smargisso)

Students continue to explore The Principles of Design by creating visual definitions of each concept. Using a matrix approach, a surreal landscape was illustrated for Contrast. Pattern was employed in the scratchboard animal portrait. Finally, Unity was achieved with the robotic solution assignment.

Advanced Art: (Smargisso)

Students completed designs for the annual Firecracker 5K contest. Then, while exploring various painting techniques, students painted a “City Lights” themed landscape using just acrylics and a palette knife. Then, in an attempt to be more impressionistic, students created a “Flora & Fauna” themed finger painting on a super sized canvas panel featured in the annual art exhibit.

Portfolio Development: (Smargisso)

Students have been focused on design industries by exploring graphic design for the 5K T-shirt contest and even exploring traditional Japanese graphics employed by the tattoo industry. A still-life painting was created using direct life observation of sneakers with a “Vans” theme that was designed by the individual designers.

Art 8: (Mills)

Students are working on clay turtles. The art element/principle for this project is form/pattern. Through the manipulation of clay students created a three-dimensional turtle. Once the turtle was constructed students creatively added pattern by adding clay to their bug or carving it into the clay. Students learned about pottery and many caly techniques.

Intro To Art: Mills

Students just finished a unit on abstract art and the application of oil pastels. In this lesson students learned about Pablo Picasso and his cubist style. Students were able to choose a superhero or villain of their choice to

recreate in the cubist style. These amazing works are hanging outside room 16!! Check them out. Currently students are working on scratchboarding!!

Intro To Art: (Ridinger)

Ridinger:

Students finished up a Mandala after studying radial, asymmetrical, and symmetrical balance. They used vibrant colors and patterns to complete their circle. We also began talking about movement in art by looking at Keith Haring. They picked a color scheme and created their haring figures 6 times. We are doing a second project on movement, talking about how rhythm and patterns are involved, as well as emphasis.

Multicultural Art: (Mills)

Digital Photography: (Ridinger)

Students have been working on using color & emotion in photography. They read two articles on how to identify emotions through the use of color. Using that, they then went out and looked for photos with each color "mood". We have also been working on redoing the READ posters throughout the school. Students have been contacting teachers of their choice and setting up times to take their pictures. We are working with our librarian, Mrs. Carroll, to replace all of the older photographs. With this, we are also studying portraiture and how to pose people for photographs.

Art 7: (Ridinger)

For our last cycle of the year, students have been working on a variety of different things. We just finished creating clay animals and they will be going through the kiln next week. We've also completed our Rex Ray collage, learning about how shape affects layers. Students also just learned about watercolor techniques.

Google Practices: (Kent / Kearns / George)

Mr. Kearns' students have been learning Google Sites. Students have used the content generated by a unit on Career Development as the material to use for a Careers Web Site.

Web Design: (Kearns)

Students have been making excellent progress developing their own web site using a list of topics that I've provided to them. It requires students to develop their own content for each page -- all the text and all the images -- and to maintain a fully functional web site in the process.

Advanced Web Design: (Kearns)

Students have been learning mobile-first design web page coding, using the Bootstrap framework. Students have been morphing their previous site pages into responsive design equivalent pages and loading them to the server to test and view on various viewports.

Financial Literacy: (Collins): This month in Financial Literacy we covered the basic guidelines of investing compared various types of investments, and identified elements of employer benefits and retirement plans (Chapter 8). We are currently in the beginning of Chapter 9, where we are exploring financial risk management as well as appropriate and most cost effective risk management strategies.

Legal Environment: (Collins) - This month in Legal we covered Chapter 5 where we explored the statute of frauds and the parol evidence rule, learned the contractual rights of minors, and defined legality vs, illegality. We are currently in the middle of Chapter 6 where we are learning how contracts are discharged, analyzing the concept of performance, and understanding the difference between delegation and assignment.

Mathematics Department May Monthly Report

Advanced Placement Calculus and Statistics students have completed their AP Testing this month. A lot of preparation and hard work from both students and teachers goes into AP preparation. The teachers have been working on district initiatives throughout the school year. Congratulations to the many students receiving Mathematicians of the Month awards this year. Below are the happenings in each of the Math teacher's classes.

Mr. Simpson

Statistics

During the month of May, the statistics students have worked on confidence intervals, hypothesis testing, and significance tests. They have discovered which pieces of data are necessary for each type of test and how to solve for the individual information. They are able to summarize and write their conclusions in the proper form.

AP Statistics and AP Calculus

Students worked on preparing for the AP Exam by simulating the exam and reviewing FRQ and MC strategies. Post AP Exam assignments will include projects applying the concepts learned throughout the year.

Mr. Cresci

Geometry - This month students have been working in one of our last units of study on Circles. We have worked on finding missing angle measures, arc measures, sector areas, and interior & exterior angles formed by special lines and segments. In the coming weeks we will finish up our circle unit and begin preparing for final exams.

Geometry Honors - This month students have completed our unit of study on Circle, and now we are in our last unit which is on Volume and Surface Area. We are learning about Volume and Surface area of cones, pyramids, cylinders, prisms, and spheres. In the coming weeks we will finish up this unit and begin preparing for final exams.

Pre-Calculus - This month students have been working on all things Matrices. We have learned how to perform Matrix Operations, including addition, subtraction, multiplication, and row operations for matrices. We then used Matrices to help us solve systems of linear equations using reduced row echelon form, inverses, and cramer's rule. In the coming weeks we will wrap up our unit on Matrices and begin preparing for final exams.

8th Grade Algebra I - This month students have been working on our 10th unit of study on radical functions. We have graphed radical functions, simplified radical expressions, and solved radical equations. In the coming weeks we will tackle some basic geometry and explore rational functions, then we will begin to prepare for final exams.

Mr. Graham

Geometry M - Students have been working on defining that parts of circles as well as finding missing information given different properties. They will finish this section and then begin reviewing for the final.

Algebra II M - Students have been working on the trigonometry section. They reviewed the pythagorean theorem and learned how to use trigonometric ratios as well as the law of sines/cosines to find missing information in right triangles and general triangles. Students will next work on a brief statistics unit before preparing for the final.

Geometry CP - Students have been working on defining that parts of circles as well as finding missing information given different properties. After completing this unit, students will look into three dimensional shapes and finding information about them such as volume.

Ms. Mahoney

Algebra 1 CP- This month students have begun working on indepth on ways in which to factor polynomials. Students have explored methods such as GCF, Difference of Squares, Basic trinomials, and Trinomials where $a \neq 1$. Soon we will get into factoring by grouping and begin testing on our unit of Polynomials and Factoring. We will end the year by reviewing for finals.

Algebra 1 Essentials- Students have been learning about classifying polynomials and operation on polynomials. This month students will begin foiling binomials and hopefully get an intro into factoring quadratic equations. We will end the year by reviewing for finals.

Geometry CP- This month students have looked at transforming figures over the coordinate plane. Students have seen reflections, translations, and rotations. During the month of June students will explore the different type of symmetries, dilations, and compositions of transformations. We will end the year by testing on the Transfromation unit and reviewing for finals.

Mr. Whitman

Algebra 1 - We have been investigating the use of radicals in mathematics this past month. Students have learned how to solve radical equations, simplify radicals, use the pythagorean theorem, and use trigonometric ratios. We will soon be testing on these topics and begin preparation for the final exam.

Math 8 - Students have been learning how to make a scatter plot, draw trendlines, and use trendlines to make predictions. We have completed hands-on activities using data collected within our classroom to make

predictions about height versus shoe size and more. Next, we will be exploring two-way frequency tables and how to find association between sets of data.

Ms. Carter

Algebra 2 - Students have worked on operations with functions and identifying whether functions are inverses of one another. They also graphed transformations of the square root function, identifying domain, range and the translations and/or reflection over the x-axis. Students were given a graph of a square root function and asked to identify domain, range, transformations of the parent functions, and an equation that would produce the given graph.

Intro to College Math - Students continued working on career research. They used ONetOnline.org to gather information about three careers chosen from eleven they identified as a result of completing inventories and surveys. They also began working on a unit involving ratios, rates and unit rates. They worked to write ratios/rates and to simplify them. The work moved to unit rates and how to calculate/write them.

Honors Precalculus - Students analyzed word problems in order to write a sinusoidal model to represent the real life situation. From given information in the problem, they calculated amplitude, sinusoidal axis, period, and phase shift; some of the features were calculated after sketching a graph. Students then used their model to answer questions related to the situation. The class started solving oblique(non-right) triangles using the Laws of Sine and Cosine. They also used formulas to find areas of the oblique triangles.

Mrs. Carson

Geometry Honors- We finished our unit on circles and have started chapter on Area, perimeter, surface area, and volume. Students have been learning about apothems and using trig and special right triangles to find missing sides.

Geometry Essentials- We are finishing up our unit on similar triangles and will be working on trigonometry next. Students have been focusing on proportions and using algebra to find missing sides.

Special Ed Department - Monthly Report - May 2018

Karen Garofalo

Careers POR: Students are continuing to work on Buying a House Project. The class took a small break and watched *Seabiscuit*. They watched it, discussed it, and completed a questionnaire.

8th Grade Math: The class is going well. They complete two chapters. 14.1 and 14.2. They working on scatter plots and their correlation, and read lines and predictions. They had to write an equation based on the trend, they had to write an equation for each math problem.

Math/ELA: In the Reading 180 program the student he finish unit, Killer Plagues. He scored very well on the unit test. In math the student is still working on his multiplication facts but only the ones he has trouble with. He is down to 20 facts. Dr. Ed. is coming along as well.

Science POR: The class just finished up a unit on elements, compounds and mixtures. The class watched the video October Sky. They had a discussion about the mixtures of chemicals needed to make the rocket fly properly.

8th Grade Social Studies: The classes completed a mock court trial to see how civil and criminal trials work. Next they dived into the 19th century America. They will design a webpage.

Theresa Klawuun

Biology Essentials: This month in Biology Essentials, students are discovering the structure of DNA. Students know how to pair up base pairs by using a mnemonic device....."Cars are in the garage" (cytosine and guanine) and "apples are in the tree" (adenine and thymine). Students also created their own mnemonic to help them remember the base pairings. Students learned the shapes of DNA nucleotides: nitrogen, sugar and phosphate and applied them to a tactile lab.

Elizabeth M. Kovach

Period 3 - College Biology with Miss Eboni Goodman: The unit the class is currently working on Molecular Genetics using Punnett Squares.

Period 4 - Google Practices with Mr. Tim Kearns: The students have been working on a variety of Google Sites and creating their websites about their favorite classes and investigating their future career opportunities.

Period 5 - 7th Grade Pull Out Science: My student has been finishing investigating Weather and Our Daily Lives. The next unit my student will be working on is "How the Universe Began."

Period 7 - 7th Grade Pull Out Social Studies: My student has learned the tasks and responsibilities of the media specialist, Mrs. Carroll and school counselor, Mrs. Hoeschele. The student gathered information about the job and created interview questions and set up interviews.

In addition to learning about the community, my student has been investigating different locations in the town of Haddon Heights by creating a large scale map.

Period 8 - Structured Learning Experience: The students are currently working at their work sites: Wawa in Barrington, and Cinemark Movie Theater in Somerdale. Students demonstrate their efforts in their jobs and stepping up to meet few of their goals.

Brian Clark

Functional Academics Plus Math: Students have been working on different functions of math and money. They have been adding, subtracting, multiplying and dividing to find the total cost.

Functional Academics Plus English: Students continue to build their vocabulary and work on filling out college and work applications. We also read have been reading short stories from Newsela.

Janis Gershowitz

English 7: are reading the novel *The Giver*, Students are having Socratic discussions where they are asking critical thinking questions to their peers and keeping a dialectical journal as they continue reading the book.

English 1: Essentials Class just finished writing research papers on topics stemming from Medieval Times. As a reward for the great jobs they did on the paper, the class took a trip to Medieval Times in northern New Jersey. Fun was had by all. Next on our agenda is the journey of Odysseus told through Homer's epic poem the *Odyssey*.

Michael Celli

During the month of May, students studied the three levels of questioning and how they apply to answering questions effectively. Students also studied the differences between direct and indirect characterization. Students have been tested on both topics and have applied their new found knowledge and understanding to their classwork. The students briefly studied bias and the art of persuasion. They read, annotated, and reflected on articles from NewsELA. Students also continued building their person centered plan and are preparing to present their introspective discoveries on June 6th to an audience of their peers, teachers, and administrators.

AP BIOLOGY - Kendra and Goodman

Students in AP Biology investigated body systems and cell communication. They also performed an inquiry lab to determine the effect of salinity on brine shrimp hatching viability. Students reviewed all concepts for the year and sat to take the AP Biology exam. Also, students designed and taught science lessons to the Haddon Heights grade schools. Up next students will be researching and creating presentations on bioethics for their final project.

Honors Biology - Kendra and McGeehan

Students in Honors Biology have been studying Genetics. They first performed an investigative probability lab to review the laws of probability. Further, students analyzed Mendel's experiments and simple traits. Students used their probability knowledge to construct paper offsprings modeling how the mother and father pass on genes. Also, we examined more complex traits. Students did analysis on X-linked traits, traits with multiple alleles, co-dominance, incomplete dominance, and pedigrees to look at family history. Up next students will be studying ecology and evolution to end the year.

Physical Science- Taylor, Klawunn, Kelly

This month, students in Physical Science continued the Physics unit. They have been both learning and seeing forces, motion, friction, Newton's Laws, momentum, weight, and energy. They saw demonstrations in class for many of these topics, did worksheets on them, watched videos, and did a few other activities. They then completed a slides presentation on Newton's Laws. They will be continuing with the Physics unit next month when we launch rockets and they complete the year with a final project on the unit.

7th Grade Life Science - Richards

The first three days of May were spent on PARCC testing, Then we continued with our plant unit. Students learned the parts and functions of angiosperms. In lab, they germinated corn seeds and practiced making observations. Students also enjoyed learning about carnivorous plants. The second half of the month,

we began our unit on Ecology. We learned about biotic and abiotic factors in ecosystems, performed a lab on population density, discussed limiting factors, symbiosis, and succession. Students also learned how to create and interpret food webs.

8th Grade Science- Monzo

May was busy month for the 8th grade students. Early on the classes presented their video essays on force and Newton's Laws of Motion and then transitioned right into energy. We have since been exploring: the nature of energy, types/forms, conversions, potential/kinetic, and renewable vs. non-renewable. Some of the chapter's concepts were punctuated by a fun riff on "Chopped." The students had a mystery basket with mystery items during three rounds of competition. The classes had to use the items to model 1st; examples of PE, 2nd; Examples of KE, and 3rd; a conversion between the two. The chapter has concluded with a summative chapter test and a presentation on a specific type of energy that includes: examples, a conversion/pathway to usable energy, and a determination if this type of energy can be utilized as a sustainable source of renewable energy on any scale.

Physics - Lynch/Kelly (May and June)

The Physics classes completed their study of waves. Students are able to explain the differences between/among electromagnetic waves, mechanical waves, transverse waves, and longitudinal waves. Students observed the behavior of waves in an experiment involving the use of a slinky. In this experiment they identified the parts of a wave, and determined what causes the speed and frequency of a wave. We moved on to the study of sound waves, and students performed a lab designed to determine the speed to sound in the room. Physics classes wrapped up the the study of electrostatics, electrostatic forces, and electric fields. These concepts involved using computer simulations and hands on demonstrations.

AP Physics - Lynch

The beginning of May was very busy for the AP Physics class, as we concluded our studies electricity and circuits which wrapped up the required material for a AP Exam. The exam was May 2nd, and the students indicated the test was hard but they felt well prepared. We have several projects we will be involved with to finish out the year. The AP completed the *Rubber Band Powered Car* project. This project required to application of many concepts learned during the year, and is a true engineering STEM activity. The car had to be as light as possible, go as far as possible, carrying as much weight as possible. We had some very impressive designs, the best of which went $\frac{3}{4}$ of the hallway. We will also complete 2 more STEM projects; the egg drop, and the toothpick bridge. While students are working on their projects we will be augmenting their Physics knowledge in preparation for college by studying Fluid Dynamics and Thermodynamics.

Anatomy 1- Lynch

Students completed their study of the muscular system, including a lab on muscle fatigue that involved quantifying the effects of constant muscle use. We moved onto the nervous system and completing a lab on reaction time. The nervous system will include understanding the CNS and PNS including the senses.

May 2018 Library Report

LIBRARY

The following report includes highlights from May in the library.

Class News

From May 1-May 30, there were 12 classes that used the Media Center for instructional use/testing. Assuming there are 20 students in each class, this works out to be approximately 240 students using the Media Center with a class during the month.

- Mrs. Carroll's 8th Grade Advisory class met in the library all month for lessons on searching tips and evaluating information.
- The library was used six days for PARCC testing and four days for NJSLA testing and make-ups.
- Mrs. McGill's classes used the library to participate in a book tasting session in order to find a historical fiction book. Students also visited the library for a lesson on using EBSCOhost.

To schedule your class for the Media Center, go to Google Drive and register under "Library/Media Sign-up 2017-18." 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 cafe area or lower level.

Need some help with a class research project, information evaluation, 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

New Books!

- Take a look at a selection of our new books [here!](#)
- All library books are due back by June 8th.

Displays

- [The Great American Read](#). PBS.org is sponsoring a reading program that highlights 100 novels and one is to be chosen as the #1 American read. A selection of the books and the list are on display in the library.

Battle of the Books

Battle of the Books Junior High members went to competition on May 29th. Nice job, Team **And Then There Were Garnets!**



Usage Statistics 5.1.18-5.30.18

Class Visits: 12 classes x 20 students/class =240 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:

Periods 1-8, before/after school: signed-in student patrons: 163

Total number of Patrons (Independent and Classes): 740

Circulation Statistics (Items checked out to students): 92

Database Usage:

Facts on File: 877 searches

Scholastic Grolier Online: 233 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!