

## **AFEE SPRING 2016 APPROVED GRANTS**

**The following grants were approved at the May 2016 AFEE board meeting. Grants totaling more than \$56,400 were approved for both Hillside and Brookside Schools for the 2016-2017 school year.**

<b>HILLSIDE GRANTS</b>
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**H1: Hillside FIRST LEGO League (2nd-3rd grade):**

Guided by an advisor and a parent volunteer, FIRST LEGO League teams research real-world problems such as food safety, recycling, and energy and are challenged to develop a solution. Two teams of 6 students each will create a Show Me poster that illustrates their journey of discovery and introduces their team. They will also construct a motorized model of what they learned using LEGO elements. At the close of each season, teams come together on a regional basis to share their ideas and celebrate their discoveries. This competition is meant to inspire young children to embrace science and technology concepts while fostering self-confidence, communication, and leadership skills.

**H2: Bee Mascot Costume (K-3rd grade):**

This grant funds a professional bee mascot costume to be used throughout the school year to distract from the first day of school jitters, enhance school assemblies and add fond memories to every child's educational experience.

**H3: Bully Proof Your School (K-3rd grade):**

A performer (Magic Jim) will present an anti-bullying character education assembly that will teach respect, responsibility and caring, while entertaining the student body. The program also deals with the important issue of how to manage those bullies who just won't go away.

**H4: Sounds Like Fun (2nd grade):**

The High Touch High Tech program delivers a 90-minute, in school science field trip that transforms the classroom into a Living Laboratory! Kids become scientists and learn by doing the actual experiments.

**H5: Birds of Prey (3rd grade):**

Students will have the opportunity to witness 15-20 birds of prey from diverse habitats during this live presentation. This program supports and enhances the third grade's Wetlands/Birds unit of study.

**H6: Lenape Indian Assembly (3rd grade):**

This interactive and hands-on assembly teaches students about traditional Lenape foods, clothing, and shelter and how they were obtained. It extends the social studies curriculum by studying Allendale's past and present, the state of New Jersey, and how the Lenape lifestyle shaped the place in which we now live.

**H7: Dance Dance Revolution (1st-3rd grade):**

This grant will fund the purchase of the DDR game in which a player stands on a dance pad and follows a series of steps projected onto a screen in rhythm to music. This game is meant to get students excited about exercise since it is presented in a fun and engaging way. In addition to the use of the DDR in the classroom, it could be used as a recess option or as a reward system for the other classroom teachers.

**H8: Animals & Habitats (1st grade):**

This assembly is an extension of the 1st grade writing and science curriculum. Outragehiss Pets will conduct the program and show students animals and discuss habitats of the rain forests and deserts.

**H9: Rainforest Butterflies Program (2nd grade):**

This program enriches and extends the current 2nd grade butterfly science unit. Students will be given a presentation by an explorer/naturalist on butterflies. They will observe spectacular displays of tropical rainforest butterflies and moths, many collected by the presenter during his numerous expeditions. Students will learn about the differences between butterflies and moths, insect body parts, camouflage, life cycle and other biological topics and concepts.

**H10: Schmittie the Weather Dog (K-3rd grade):**

This STEAM enrichment program features Meteorologist Ron Trotta, his dog Schmittie and author Elly McGuire. The program features the book and dog as well as a weather lesson and music. It also focuses on overcoming adversity while incorporating music and literacy into the lesson

**H11: Weather or Not (1st grade):**

Students will become scientists and learn about the weather by doing actual experiments in the classroom. They will take an “up close” and hands-on look at a real tornado. Students will also discover all the amazing properties of air and air pressure, make thunder and touch lightening!

**H12: Earth Balloon (2nd grade):**

Earth Balloon is a 20’ diameter model of the earth. It is an inflatable globe made up of a high-resolution satellite image with true to earth colors. Students will view the earth balloon with a facilitator provided by Earth Adventure. Students will see the earth in its entirety inside the globe.

**H13: Kit’s Interactive Theatre / Colonial Life (2nd grade):**

The second grade students will participate in this performance of colonial life by starring as folks in a village. The program focuses on a day in the life of an indentured servant. This will enrich and enhance the second graders’ study of colonial life and demonstrate the differences between the 18th and 21st centuries.

**H14: Theater Week (2nd-3rd grade):**

Better Than Broadway Productions, LLC will produce a full musical in one week, utilizing the talents and skills of Hillside second and third graders. Students learn songs, choreography, staging, lines and characters by participating in mandatory rehearsals from Monday-Thursday, and then perform the show twice on Friday.

**H15: John Fell House History Tour (3rd grade):**

The NJ Militia-Heard's Brigade will perform a reenactment of the arrest of John Fell to make the past come alive for students. The presentation will include re-enactors dressed in period costume with muskets and drums. This grant will enhance the current history tour of the John Fell home and property and how it relates to Allendale and New Jersey history.

**H16: Preschool Dramatic Play (PreK):**

As of September 2016, the Preschool program will be adopting "Tools of the Mind" curriculum. This curriculum focuses on play planning, self-regulation and pretend play. To build upon this, the grant will fund enhancements to the current learning centers to help guide their learning and play.

**H17: Preschool STEM (PreK):**

The Preschool STEM grant will help bring STEM related materials into the preschool classroom. These materials will give students the tools they need to explore, design, and build, while experimenting with different materials and objects during center time.

<b>BROOKSIDE GRANTS</b>
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**B1: EZ Robots (7th grade):**

The EZ Robots that this grant will fund are full-featured consumer ready robots that walk, talk, listen and make decisions of their own. The 7th grade students will generate ideas for inventions that will use robots to help with daily tasks or to assist in dangerous environments. This grant will provide students with the appropriate tools to prepare them for a future that is embedded with computer science.

**B2: Innovative Seating (4th grade):**

This grant funds ergoErgo seats to pilot in the fourth grade and basic skills classrooms. These seats compress slightly to allow continuous movement forward, back, and side-to-side, strengthening muscles and increasing attention spans.

**B3: Standing Desks (7th-8th grade Study Skills):**

Throughout the course of the day, many special education students use movement as a way to concentrate while working. Many prefer to stand or kneel at their desks. Research shows that students actually need to move to focus during complicated mental tasks. This grant will fund desks that can be placed on another desk or table.

**B4: Morris Museum Loan Program (5th grade):**

The Museum Loan Program offers teachers the ability to borrow more than 1,400 portable boxed exhibits from the Morris Museum in Morristown, NJ. These exhibits contain hands-on objects and interpretive materials that relate to subjects in the arts, sciences, history, and humanities. Artifacts, models, charts, reproductions of artwork, science experiments, classroom activities, and mounted specimens such as mammals, birds, and insects will enhance students' classroom learning experience in social studies and science.

**B5: Graphic Novel Summer (4<sup>th</sup>-8th grade):**

This grant will fund the purchase of graphic novels that will be used for summer reading, with each grade level provided with the same book. In preparation for the summer reading, teachers will provide lessons in the spring about how to effectively read graphic novels. These mini lessons will set students up for success in their summer reading. This

grant's goal is to help foster a love of reading in the Brookside community as well as a shared reading experience.

**B6: FIRST LEGO League Team - Enhancements (6th-8th grade):**

This grant will add an additional advisor and equipment to the existing Brookside FIRST LEGO League. This League is an international robotics program in which teams assemble robots designed to accomplish tasks associated with a real-world challenge and then enter them into a competition.

**B7: Newton's Playground (6th grade):**

The full implementation of the Next Generation Science Standards in the upcoming year will necessitate several changes to our existing curriculum. Sixth grade science will include a new unit on "Energy, Forces, and Motion." In order to facilitate this transition, this grant will fund materials for various "stations" in the classroom. Each station will focus on one or two fundamental physics concepts and contain equipment designed to encourage self-discovery, using an inquiry-based approach and students' own curiosity.

**B8: Make!Sense (6th grade):**

Data analysis, spreadsheets and mathematical, logical and statistical functions to solve everyday problems are important tools that our students should master. This grant will fund various circuit boards and sensors that will measure daily activities. Students will use the data that is collected through the sensors and other measuring devices to plot the information, analyze it and draw educated conclusions. Since the 6th grade will be stressing spreadsheet analysis, this grant will provide our school with the necessary equipment to collect data.

**B9: Exploring Our World (2nd-4th grade):**

This grant will fund the use of a National Geographic Giant Traveling Map that is accompanied by a set of activities and materials. The map will provide various grade levels opportunities to take advantage of the scale of the map and experience it in a physical way.

**B10: Engineering & Design Loop (K-8th grade):**

Building on the tremendous success of the Kindergarten "Introduction to Engineering Design" grant last year, this grant extends that work to

all grades in both schools. The grant will fund TCNJ staff to come to both schools and work with teachers to enhance units with true engineering and design tasks that fully align with the Next Generation Science Standards.

**B11: Building Resiliency (K-8th grade):**

This grant will fund a speaker as part of a kick-off event for a redesign of our character education program. Expanding upon the current program, the plan is to create a series of themes to be explored on a year-long basis. This speaker will introduce the first theme -- resiliency.