# LIFE SCIENCE, NON-FICTION READING &

he Kindergarten-First Grade class is fasci- ages, etc. They discovered the relationship be- the weight of the pebbles needed to make it nated with the world around them, showing tween the physical traits, their functions, and sink. Students decided how many pennies a deep interest and curiosity about living things their survival. For example, a penguin catches equal the weight of pebbles needed and recordand their lives. Since March, using non-fiction its prey with its sharp beak. Students learned ed their findings.

texts and through engaging rich hands-on ex- about their animal's life cycle and life span notplorations, students learned all about animals ing what the animal is called as a baby and how and their habitats as well as how to research long they typically live.

and document their findings in a non-fiction **a** ext, students researched their animal's book format.



Students head outside for a Living & Non-Living Scavenger Hunt.

habitat. They focused on the habitat's weather and physical features. The class dis-

cussed how animals can physically adapt to their environment. They conducted small group experiments to develop their understanding and knowledge of animals' adaptations for the Science Showcase. An adaptation is a special skill changes to the animal's body.



Yishai creates a strong armature.

n the Art Studio, students looked at the book which helps an animal to survive and do every- Abecedario, an alphabet book in English and thing it needs to do. Adaptations can be physical Spanish featuring Mexican folk art animal sculptures by the people of Oaxaca. The colorful ne group of students investigated how a sculptures inspired us to sketch our animals and polar bear's blubber keeps him warm dur- think about the shape, color and texture of ing the cold winter by first recording the temper- them. Once we figured out the shapes we C tudents began their study by first brain- ature of their hand in ice water inside a glove needed to make, we were ready to build the storming characteristics of living and non- with no "blubber". Then, they placed shortening structure of our sculptures. Morah Sarah ex-

# **STUDENTS ARE** LEARNING

B'H

## NYS.SCI.LE.3.1a:

Identify, describe, and compare the physical struc-tures of animals (e.g., body coverings, sensory organs, appendages, beaks).

NYS.SCI.LE.1.1a; NYS.SCI.LE.3.1a:

Identify, in animals, the relationship between the physical structures and the functions of those structures (e.g., obtaining food and water, protec-tion, movement, support).

NYS.SCI.LE.SCI.3.1a:

Compare and contrast the physical characteristics in aniimals.

NYS.SCI.LE.3.1a, c:

Describe how physical traits help a species to survive (e.g., giraffe's neck, turtle's shell).

# NYS.SCI.LE.2.2a, b:

Observe how animals grow and change in predictable ways: i.e. Animals closely resemble their parents and other individuals in their species. NYS.SCI.LE.4.1a,e,f,g: Describe animal life cycles and life spans (e.g., baby/adult, puppy to dog). CC.ELA.R.IT.KID.1: Ask and answer questions about key details in a text. CC.ELA.R.IT.KID.2: Identify the main topic and retell key details of a text. CC.ELA.R.IT.CS.4:

living things. Students defined a living thing as into a glove to act as blubber and record the plained how the structure, or armature, of a something that needs food and air to grow and temperature inside the blubber glove. They de-sculpture is like the skeleton. It is like the strong move. In small groups, they headed outdoors termined which glove is warmer. They recorded bones that hold us up. If a papier-mâché sculpon a scavenger hunt to identify living and non-their hypotheses and conclusions on a data ture didn't have an armature, it would flop into a living things around the school. They shared chart.

their findings when they returned to the classroom.

ext, the students learned how animals are classified into groups such as mammals, reptiles, amphibians and fish. The class decided to visit the Queens Zoo to learn more about animals. Before the trip, they discussed what types of animals they would see there and which ones we would like to visit. After their visit, students selected an animal to study in greater depth. The animals chosen ranged from a rabbit to a —brown bear.



Ethan asks the librarian a question when on a trip to the local Bay Terrace Library to check out non-fiction books about their animal.



Students pay close attention to creating a strong skeleton for their animal.

he other group conducted an experiment strated a high level of understanding. guin's bones helps it sink in the water to catch V students used their findings to write their its food. Most birds have light hollow bones that "All About..." non-fiction book. By reading and allow them to fly. Penguins have heavy filled studying non-fiction for their research, students bones which allow them to both swim and catch developed an understanding of various forms, fish. First, students placed a hollow penguin features, and purposes of this genre. Students'

puddle. We used masking tape, bottles, cups, and paper to make our armatures, making sure that it was strong and sturdy so that when it got wet it would still stay standing. The next step was to add the papier-mâché, strips of newspaper and paper towel dipped in glue and wrapped around our sculptures. Once dry, it hardens and our sculptures can stand on their own! Then, we used paint and yarn to put the finishing touches on our own papier-mâché zoo.

hey visited Alley Pond Environmental Center. They investigated the question, "Are all animal babies born and raised the same way? They focused on the developmental differences and similarities amongst mammals and birds. They were full of great questions and demon-

that demonstrated how the weight of a pen- nce their animal research was complete,

Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.

#### CC.ELA.IT.CS.5:

Know and use various text features (e.g., head-ings, tables of contents, glossaries, electronic menus, icons) to locate key facts or information in a text.

#### CC.ELA.R.IT.IKI.7:

Use the illustrations and details in a text to describe its key ideas.

#### CC.ELA.W.RBPK.7:

Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of ĭnstructions).

### NYS.NA-VÁ.K-4.1:

Understanding and Applying Media, Techniques, and Processes.

#### NYS.TECH.2:

Information technology is used to retrieve, pro-cess, and communicate information and as a tool to enhance learning.



While on a class trip to Alley Pond Enviromental Center, students learned about a variety of animals.

nce they selected an animal to research bone (aka empty tin foil tubes) in water and ob- "All About..." books contain non-fiction text fea- tions and Photos with captions, About the Aufurther, they studied their animal's physical served that it floats. Next, they filled the penguin tures including a Cover/title page, Table of Con- thor, an Index and a Glossary. characteristics by identifying, describing, and bones with just enough pebbles to make it sink. tents, Headings, Diagrams with labels, Illustratheir body coverings, sensory organs, append- Then, using a balance scale, they measured

> CHABAD OF NORTHEAST QUEENS 2014-2015 KINDERGARTEN - 1ST GRADE