Crunchy Critter

Ingredients:

3 cups Florida vegetables diced (cucumber, pepper, carrot, celery, lettuce, tomato as desired)

6 whole-wheat wraps (soft tortillas)

¾ cup low-fat cream cheese

¾ cup hummus spread

Preparation:

- Spread a thin layer of cream cheese or hummus (about 2 tablespoons) over each tortilla.
- Add about ½ cup of veggies to each tortilla. Roll up tortillas, flattening with each turn, to form a tight spiral.
- Use a small amount of cream cheese or hummus to seal up the rolls.
- Cut each roll into five sections.
- Arrange rolls on a plate and use additional veggies to make a "bug."

For each roll:

- Create legs with five baby carrots cut in half lengthwise.
- Create the face with one grape tomato.
- Create eyes with extra diced pepper.
- Create antennas with two thin carrot strips.
- Stick eyes and antennas into face as shown.

Yields six servings

At LEGOLAND Florida, learning is fun, and after visitors return home, what better way to reinforce what they learned about Florida fruit and vegetables than by making a cute and yummy snack? We think this Crunchy Critter snack continues the fun at home!

Fresh from Florida Agriculture: Fun and nutritious

There is so much to learn about Florida agriculture.

Did you know?

- Florida farmers produce about 1 billion ears of sweet corn annually, enough for every person in Florida, estimated at 19 million citizens, to have an ear almost weekly.
- If all the boxes of Florida tomatoes shipped in a recent crop year were laid end to end, they would reach from Pensacola, Florida, to Moscow, Russia.
- Florida produces more than 300 agriculture commodities. The agriculture industry provides jobs for more than 750,000 people. It also provides more than $100 billion for our state annually. Florida agriculture ranks first nationally in the value of sales for snap beans, fresh market tomatoes, cucumbers, bell peppers, squash and watermelons.

It's all about health

Not only is Florida agriculture important to our economy, it is also important to our children's health. With childhood obesity issues at the forefront of today's news, it is important to educate our children on the abundant fruit and vegetable commodities provided by our Florida farmers and the role they play in maintaining a healthy diet.

The Fresh From Florida Greenhouse at LEGOLAND Florida provides a venue to teach children about where their food comes from and the importance of healthy eating through a fun and interactive learning environment. Children of all ages can explore a Florida farm from seed to harvest through a variety of hands-on and visual displays that demonstrate the six stages of production: Seeding, sowing, watering, tending, harvesting and serving.

Greenhouse visitors also will learn why natural resources such as water and nutrients are essential to crops, and how animals such as cows and bees play a role in providing foods served at tables across the nation.

Newspaper activity

Learning new words

When you study new things, you often come up against some tough vocabulary words! Most vocabulary words are learned from context clues or good old-fashioned dictionary work. While you read this poster, be sure to highlight or circle words you don't know. Try to figure out the words' meanings by looking for clues in the sentences around them. Write down your best guess, and then look the words up in a dictionary. As a group activity, make a list of the words students identified and see which words stumped the class. Look for these new words in the *Tampa Bay Times* or the *Orlando Sentinel*.

MAKING STEM LEARNING FUN!

LEGOLAND FLORIDA

Orlando Sentinel Newspaper in Education

Tampa Bay Times NIE newspaper in education tampabay.com/nie

Miniland USA

Miniland USA at LEGOLAND® Florida is made of more than 30 million LEGO® bricks. More than 80 Master Model Builders from North America, Europe and Asia worked for two years to build Miniland USA! Check out some fun facts about iconic landmarks in Florida and across the country.

Washington, D.C. - In 1791, an act of Congress declared that our nation's capital would be built along the banks of the Potomac River. It would be called the District of Columbia and would not be part of any state. **The White House** is the official residence of the President of the United States of America. Every president after George Washington has lived in the official residence since 1800. **The Washington Monument** is 555 feet tall. To get to the top, you can climb 896 steps, or just take the elevator inside. The real Washington Monument weighs 81,210 tons. Our LEGO model weighs just 129 pounds.

New York City - Be careful not to get dizzy when you walk around the **Solomon R. Guggenheim Museum** to see the works of modern and contemporary art. It is the only building in New York City designed by America's best-known architect, Frank Lloyd Wright. **The Statue of Liberty** was a gift from France to the United States in honor of American Independence and the friendship between the two nations. From the bottom of the pedestal to the tip of the torch, it is more than 305 feet high! Our LEGO model is nearly 9½ feet tall.

San Francisco, Calif. - Even though it's red, it is called the **Golden Gate Bridge** because it spans the Golden Gate Strait, the entrance to San Francisco Bay from the Pacific Ocean. The bridge is more than a mile long, and it was the longest single-span bridge in the world when completed in 1937. Nearly 2 billion vehicles have crossed the bridge since it opened! Many of the 48,000 **Victorian homes** built from 1849 to 1915 were lost in the fire after the great earthquake of 1906. However, thousands of these grand "Painted Ladies" remain as icons of Queen Anne, Edwardian and Italianate architecture.

St. Augustine, Fla. - Founded in 1565, St. Augustine is the oldest continuously inhabited European settlement in North America. It is home to many famous landmarks, including the Lightner Museum, America's Oldest Wooden Schoolhouse and the Castillo de San Marcos, a Spanish fort that guarded the town against pirates!

Florida State Capitol - Located in Tallahassee, the old and new Capitol buildings are the seat of government in Florida. The old Capitol was built in 1845 and is now a museum. The new Capitol building was finished in 1977 and houses the governor's office and the state legislature.

Newspaper activity

Miniland Tampa Bay

Look in the *Tampa Bay Times* or the *Orlando Sentinel* for ads, photos or cartoons that represent different places, people and events that take place in your county. Imagine that you are part of a group creating a Miniland Tampa Bay. Using the information you find in the newspaper and what you see around you, make a list of all of the items you would include to represent your town, city or county. Draw a picture or map showing what would be included in your representation. Share and explain your drawing to your class.

LEGOLAND® minifigure facts

- The LEGO minifigure represents the world's largest population of people! More than 4 billion minifigures have been produced in the last 30 years. This is more than 12 times the population of the United States!
- The body of a minifigure is the same height as three LEGO bricks stacked on top of one another, and the head is one LEGO brick high, making it 1½ inches tall.
- The average minifigure – with no hair or accessories – weighs 1/10 of an ounce.
- It would take 1 billion minifigures lined up in a single row to wrap around the earth's circumference one time. Today there are enough minifigures to wrap around the earth at least four times.
- The LEGO Company sells 3.9 minifigures per second – 365 days per year. That's more than 122 million per year!
- There are more than 8 quadrillion (8,181,068,395,500,000) possible combinations of minifigures that can be made using all of the unique minifigure parts produced over the last 30 years.

Minifigure trading:

Did you know you can trade your minifigure with our MCs? MC stands for Model Citizen, which is what we call the employees at LEGOLAND.

LEGOLAND Florida and STEM

LEGOLAND Florida offers eight educational programs which incorporate STEM (science, technology, engineering and mathematics) concepts and meet the Florida Next Generation Sunshine State Standards. All the programs are fun and interactive and provide a hands-on learning experience to enhance your classroom lessons. Educational programs are 45 minutes long and are offered during the school year. Instructional educational programs are offered Monday through Friday, depending on the season and availability. Self-guided programs are available as an alternative. Educational resource guides, which outline different activities throughout the entire park, are available from the website at florida.legoland.com/education.

1. **Robotics for Young Beginners (Grades 1-2):** Students will understand introductory concepts of robotics using motors and sensors. Build a Florida alligator and make it move!
2. **Tall Towers (Grades K-3):** Become a better builder! Learn how structures are made and what makes them strong. Test your creation on our earthquake table!
3. **Funtastic Gears (Grades K-2):** Students build a theme park ride using gears to alter the speed and direction.
4. **Get Moving (Grades 2-5):** The forces are with you. Discover friction, inertia and wind resistance. Build a car, see the forces at work and predict which car will win and why!
5. **Energy Lab (Grades 4-6):** Renewable energy is the way to go! Build a solar-powered LEGO® car. Compare solar energy to mechanical energy.
6. **Amazing Machines (Grades 3-6):** Discover gears, levers and pulleys. Build a simple machine that works! The challenge is to build a motorized machine!
7. **Dr. Heartbeat (Grades 3-6):** Join Dr. Heartbeat and the NXT-bots to complete a variety of life-saving operations and medical procedures using a computer, light and sound sensors, and motors.

8. **Adventure-Bot (Grades 3-6):** Go on a mission using the Adventure-bots to retrieve golden marble treasures and hide them from the treasure hunters using a computer, light and sound sensors, and motors.

Call 1-877-350-5346 to book your school field trip today!

LEGOLAND® Water Park

The water park features a wave pool, the Build-A-Raft River, tube slides, body slides and an interactive water-play structure – DUPLO® Safari.

The water park contains about 1.2 million gallons of water and 2 million LEGO bricks.

LEGOLAND Water Park is open seasonally. Please visit LEGOLAND.com for details regarding days and hours of operation.

The Tampa Bay Times Newspaper in Education (NIE) program is a cooperative effort between schools and the *Times* to promote the use of newspapers in print and electronic form as educational resources. Our educational resources fall into the category of informational text.

Informational text is a type of nonfiction text. The primary purpose of informational text is to convey information about the natural or social world. And since the mid-1970s, NIE has provided schools with class sets of informational text in the form of the daily newspaper and our award-winning original curriculum at no cost to teachers or schools.

In the Tampa Bay area each year, more than 5 million newspapers and electronic licenses are provided to teachers and students free of charge thanks to our generous individual, corporate and foundation sponsors, such as LEGOLAND.

In addition to providing free supplemental materials to educators, NIE also hosts free educator workshops and webinars. Our teaching materials cover a variety of subjects and are consistent with Florida's Next Generation Sunshine State Standards and Common Core Standards.

For more information about NIE, visit tampabay.com/nie or call 800-333-7505, ext. 8138. Follow us on Twitter at Twitter.com/TBTimesNIE and check out the NIE Blogging Zone at tampabay.com/ blogs/niezone.

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This publication and its activities incorporate the following **Next Generation Sunshine State Standards: Language Arts:** LA.2.1.4.1; LA.2.1.4.2; LA.2.1.4.3; LA.2.1.4.4; LA.2.1.4.5; LA.2.1.5.1; LA.2.1.5.2; LA.2.1.5.3; LA.2.1.6.1; LA.2.1.6.2; LA.2.1.6.3; LA.2.1.6.4; LA.2.1.6.5; LA.2.1.6.6; LA.2.1.6.7; LA.2.1.6.8; LA.2.1.6.9; LA.2.1.7.1; LA.2.1.7.5; LA.2.3.1.1; LA.2.3.1.2; LA.2.3.1.3; LA.2.3.2.1; LA.2.3.2.2; LA.2.3.3.1; LA.2.3.3.2; LA.2.3.3.3; LA.2.3.3.4; LA.2.3.4.1; LA.2.3.4.2; LA.2.3.4.3; LA.2.3.4.4; LA.2.3.4.5; LA.2.3.4.6; LA.2.5.1.1; LA.2.5.2.1; LA.2.5.2.2; LA.2.5.2.3; LA.2.5.2.4; LA.3.1.4.1; LA.3.1.4.2; LA.3.1.4.3; LA.3.1.4.4; LA.3.1.5.1; LA.3.1.5.2; LA.3.1.6.1; LA.3.1.6.2; LA.3.1.6.3; LA.3.1.6.4; LA.3.1.6.5; LA.3.1.6.6; LA.3.1.6.7; LA.3.1.6.8; LA.3.1.6.9; LA.3.1.6.10; LA.3.2.2.2; LA.3.3.1.1; LA.3.3.1.2; LA.3.3.1.3; LA.3.3.2.1; LA.3.3.2.2; LA.3.3.3.1; LA.3.3.3.2; LA.3.3.3.3; LA.3.3.3.4; LA.3.3.4.1; LA.3.3.4.2; LA.3.3.4.3; LA.3.3.4.4; LA.3.3.4.5; LA.3.3.4.6; LA.3.5.1.1; LA.3.5.2.1; LA.3.5.2.2; **Science:** SC.2.N.1.1; SC.2.N.1.2; SC.2.N.1.3; SC.2.N.1.4; SC.2.N.1.5; SC.2.N.1.6; SC.2.P.10.1; SC.2.P.13.1; SC.2.P.13.3; SC.2.P.13.4; SC.3.E.5.4; SC.3.N.1.1; SC.3.N.1.2; SC.4.N.1.3; SC.3.N.1.4; SC.3.N.1.5; SC.3.N.1.6; SC.3.N.1.7; SC.4.N.1.8; SC.3.N.3.2; SC.3.P.10.1; SC.3.P.10.2

Common Core Standards: Reading Informational Text RI.2.1; RI.2.2; RI.2.4; RI.2.5; RI.2.6; RI.3.1; RI.3.2; RI.3.4; RI.3.5; RI.3.6 **Reading Foundation Skills** RF.2.3; RF.2.4; RF.3.3; RF.3.3 **Writing:** W.2.1; W.2.3; W.2.5; W.2.7; W.3.1; W.3.3; W.3.5; W.3.7 **Speaking and Listening** SL.2.1; SL.2.2; SL.2.3; SL.2.4; SL.2.5; SL.3.1; SL.3.2; SL.3.3; SL.3.4; SL.3.5

LEGOLAND FLORIDA

THE WORLD OF LEGENDS OF CHIMA

PRESENTED BY CN CARTOON NETWORK

The LEGO® World of Chima™ presented by Cartoon Network™

- There are 2 million LEGO Bricks in The World of Chima, bringing the total found in LEGOLAND Florida to an astounding 58 million LEGO Bricks.
- Nearly 150 LEGO models can be found in The World of Chima.
- There are 219,000 gallons of water in The Quest For CHI ride.
- The Quest for CHI water ride is approximately 5 minutes, 30 seconds in ride time.
- There are 12 watercrafts in The Quest for CHI; each watercraft carries eight guests.
- There are two watercrafts in The Quest for CHI that are wheel-chair accessible.
- Mount Cavora is 23 feet high and 40 feet in diameter. It weighs 7,500 pounds and stands an impressive 55 feet in the air!
- One thousand gallons of water rush through Mt. Cavora every minute.

Close reading activity

So, what is the mysterious World of Chima? You can read about it here: lego.com/en-us/chima/world-of-chima/land-of-chima/. Have your teacher read you the story of The World of Chima. While the teacher is reading, make a list of all of the important points. After you are finished exploring the website, use your list to make a song about The World of Chima. Be sure to include some of the fun facts presented in this poster in your song!

Before you build, learn about these terms

What is a structure?

A structure is the arrangement of all parts of a whole thing. It is something that is built. The World of Chima™ opened on July 3, 2013, at LEGOLAND Florida and is the newest structure at the park.

What is a man-made structure?

A man-made structure is built or constructed by people. The Quest for CHI, Cragger's Swamp and Speedorz Arena make up the all-new man-made World of Chima at LEGOLAND Florida.

What is a natural structure?

Natural structures grow or are built by other living things. Leaves, snails and turtle shells are natural structures that grow. A spider web, bird's nest, beehive and beaver dam are examples of structures that are built by other living things.

What is a shell structure?

A shell structure is built to enclose people or objects. The building that houses the Lion Temple where you find the CHI pool is an example of a shell structure in the Quest for CHI attraction. An eagle's nest is an example of a natural shell structure.

What is a frame structure?

A frame structure is built to support a load. Each LEGO model you see in The World of Chima has a frame structure built inside of it to support the weight of the bricks. Spider webs and leaves are natural frame structures. Everyone has a natural frame structure in his or her own body – a skeleton.

Think about it

Structures can be flexible or rigid. Some structures are flexible or stretchy, such as a net, folding doors or a plastic bag. Some structures are rigid, such as towers, houses and tables.

Tips for building stable structures

When we build structures, we want them to be stable, or strong. Here are two hints from LEGOLAND Master Model Builders to help build stable structures: 1. Overlap the bricks as you build the levels taller. This is also called interlocking. 2. Build a wide base, and do not make the top too skinny.

Find these vocabulary words from this poster in the word match. Then read through the *Tampa Bay Times* or the *Orlando Sentinel* to find these words in articles, headlines, ads or comics.

CIRCUMFERENCE	MODEL
CONSTRUCT	QUEST
ENCLOSE	RIGID
FLEXIBLE	SOLAR
HEALTHY	STABLE
INTERACTIVE	STRUCTURE
LANDMARK	WATERCRAFT

M X I S S T L T K H D Y A W A E
E L B A T S F A E P H R C Z A R
F O Y N V Q X A N D R I C U G U
P Z N Z Y Q L O R D R A I Z L T
Y D G S D T R T T C M A A U Q C
I M J Z H A D C U N R A Z L E U
L M D Y L P U M X G X E R M Z R
L V U O E R F D D X X V T K S T
E K S V T E V J S I N Z A A G S
D P O S R N F L E X I B L E W D
O S N E Y C N M D S L G H U S D
M O N D L L R X T F D Y K B S Z
C C Z A U O B Z V S L C G E B P
E N G U P S M T K L E B R S P Q
R I G I D E K L R P Y U U A U D
G E V I T C A R E T N I Q W V J

Critical thinking activity

What do the words "strong" and "stable" mean? Try to figure out the definitions based on the descriptions given. After you brainstorm ideas of the definitions, look the words up in a dictionary. Do the two words mean the same thing? How are the meanings similar? How are they different? With your class, create a Venn diagram showing the differences and similarities.

Look for images in the newspaper that represent these terms.

The power of the sun

Did you know the sun is a star that is thought to be brighter than about 85 percent of the stars in the Milky Way galaxy? The sun is the closest star to the earth, and is the greatest source of energy for our planet.

Every human being relies on the sun to feed trees and create oxygen through photosynthesis. In a similar process, solar photovoltaic (PV) panels can be used to produce energy for use at home and work. The panels absorb sunlight, using the sun's energy, or photons, to release electrons within the PV cells. These electrons then flow through a connecting wire, creating electricity that can be used to power things such as lights and motors – even model cars or robots made out of LEGO pieces!

Tampa Electric and LEGOLAND Florida are planning a new exhibit and interactive attraction to show firsthand how solar energy is created. The project will help explain the impact cloud formations, the angle of the sun and the time of day have on the amount of solar energy produced.

The proposed PV system will produce up to 47,000 kilowatt-hours of energy annually, helping to offset about 40 tons of carbon dioxide every year. That's like planting 9 acres of trees!

Community solar projects such as the one proposed for LEGOLAND Florida are developed through Tampa Electric's Renewable Energy program. The program includes six PV systems that have a combined total capacity of more than 100 kilowatts. Tampa Electric residential and commercial customers can choose to purchase energy generated from renewable resources. Visit **tampaelectric.com/renewable** to learn more.

TECO TAMPA ELECTRIC

Newspaper activities

Exploring renewable energy

Discover how to use the LEGO Renewable Energy components to collect, store and transfer energy. When energy is stored in a capacitor, it is called potential energy. When energy is released, it changes to kinetic energy, the energy of motion.

1. Build a model of a theme park ride or a car with a motor attached.
2. Explore the power of two different energy sources: mechanical and solar.
3. Collect mechanical energy, then solar energy, in the capacitor.
4. Transfer the power to the motor to make the ride run.
5. Which energy source gives the most power?

Using the cartoons in your newspapers as models, create a cartoon strip depicting your results. Share your cartoon with your class.

All about energy

Energy represents the capacity to do work or the ability to make things move. Think about where energy comes from. What is the difference between renewable and nonrenewable energy? Think about what you have learned about solar energy. Is it more desirable to use renewable or non-renewable sources? Look for pictures, cartoons, photos and advertisements in the *Tampa Bay Times* or the *Orlando Sentinel* that show forms of energy. Print or cut out the photos and create a collage. Next to each image, write whether it is a form of renewable or nonrenewable energy. Share the information with your class.

Experiment inspiration

The *Tampa Bay Times* and the *Orlando Sentinel* are good places to get ideas for a science project. Look through each section of the newspaper and start asking questions, such as

- How do different building materials (brick, wood, vinyl siding and stone) act to keep out cold air? (Real Estate, Business)
- How does the speed of a pitched ball affect the distance it travels when hit? (Sports)
- How does looking at pictures of food affect people? (Taste or Lifestyles)

Share your questions with the rest of the class and discuss which questions can be solved by performing an experiment.

Making predictions

A hypothesis is a fancy word for an educated guess. With a hypothesis, a scientist predicts what he or she believes will happen. Look at the comics in the *Tampa Bay Times* or the *Orlando Sentinel*. Cover the last panel. Read the other panels and then form a hypothesis of how the comic strip will end. Be sure to base your thoughts on the context of the first few panels. Now draw a new comic strip to show your classmates. Your comic strip should feature LEGO® characters and be set in one of the LEGOLAND® cities. See if you can stump your classmates.