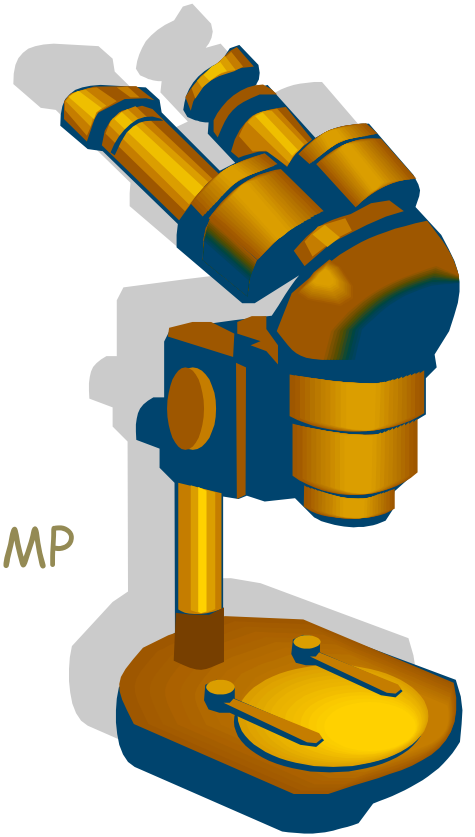
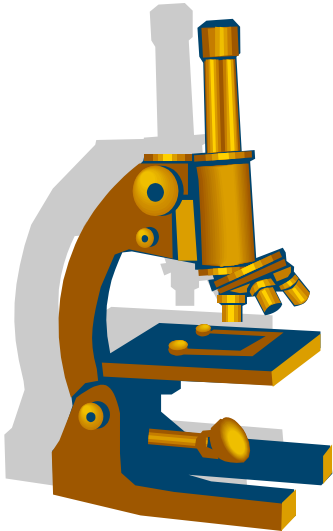
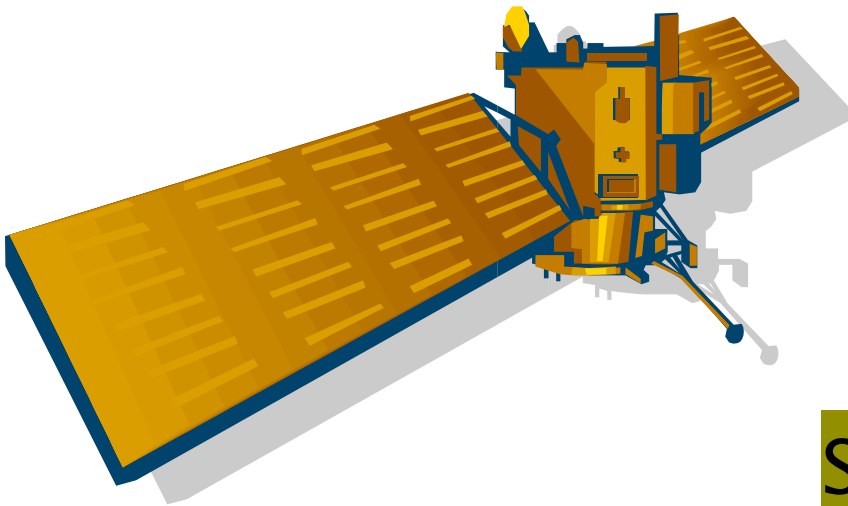


S. science **T.** echnology **E.** ngineering **M.** athematics

Summer Learning 2011!!!



Optimal Learning Centers STEM CAMP



OPTIMAL LEARNING CENTERS

Summer Camp

2011

Summer Recess and Academic Loss

By

Sebastian Ziraba, Ed.D.

Research studies have consistently shown that students from preschool through high school average at least two months of academic loss over summer recess. Studies have also shown that by participating in well-planned summer programs, achievement loss does not occur. In fact, based on the quality of the program, many students actually experience academic achievement over the summer.

The summer program at Optimal Learning Centers is designed to elevate student achievement motivation. Emphasis is placed on accelerating the summer campers' learning and development; raising their levels of achievement motivation, skill development and school enjoyment; and encouraging parents to be more directly involved in their children's education.

Objectives are achieved through activities and projects that will involve the students in health and physical fitness via SPARK (Sports, Play and Active Recreation for Kids). Each session highlights a different sport that includes soccer, Frisbee, basketball, track and field, softball, wall ball/handball and hockey.

Each week the National STEM (Science, Technology, Engineering and Mathematics) program includes earth, space, life and physical science as well as concepts in technology and engineering. The concepts will also be realized through learning about the: cultures, geography, games and dances of Brazil, Pakistan, South Africa, China and Kenya. During the week of July 25th- July 29th campers will celebrate children's festivals of the above countries. The major highlight of the summer will be the campers performing the new version of the Snow White children's musical play sponsored by the well known Pioneer Theater Productions.




A major component of the program is our ongoing Practical Life activities at both the preschool and elementary school levels. Through this component, children learn to adapt to the social context of their environment. The activities include: care of self, care of the environment, exercises of grace, control of physical movement, preparation and activities involved in going out, especially for the elementary aged children.

Detailed information about the program can be accessed by going to: www.optimallearningcenters.com. Centers are located at: Sally Ride School (301-972-6415) and Waters Landing School (301-972-1334) Germantown;, Montrose School (301-770-4233) (Rockville); Emory Grove OLC (301-670-9117) Gaithersburg.

JUNE - Week 1- Focus: June 20th- June 24th

STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	STEM Fair
<p>- Recognize that water, rocks, soil, and living organisms are found on the earth's surface.</p> 	<p>-Recognize that animals (including humans) and plants are living things that grow, reproduce, and need food, air and water.</p>	<p>-Sort objects by observable properties such as size, shape, color, weight and texture.</p>	<p>-Identify and describe characteristic of natural material (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam)</p> 	<p>-STEM Fair</p> 

All Over the World (Global Literacy)

- Cape Town and South Africa (Week 1 and 2)

Creative Crafts for Clever Kids

- Trash Treasures (Week 1 and 2)

Fine Arts

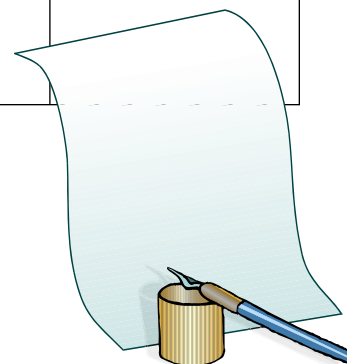
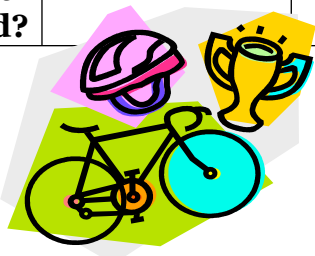
- You are the conductor



JUNE - Week 1 Focus: June 20th - June 24th

THEME: PATENTS

Monday	Tuesday	Wednesday	Thursday	Friday
<p>Charles Goodyear patented his process for vulcanizing rubber on June 15, 1844. What can you make of 5 or fewer components, one being a rubber band?</p>	<p>William Clarkson, Jr. patented the bicycle on June 26, 1918. Decorate bicycles for a celebration parade.</p>	<p>Be inventive. Think about what product might make life easier now. Draw a picture or write a description and show how useful it could be.</p>	<p>Become an inventor! Create your own new product using modeling clay and toothpick or straws, or recycled “junk”.</p>	<p>Write a letter as if you were requesting a patent on your new product. Include why you think your product is useful.</p>



All Over the World (Global Literacy)

- Cape Town and South Africa (Week 1 and 2)

International Playtime

- Games and dances of South Africa



June – Week 1: Focus _____ 1

SPARK: Frisbee Frenzy (Weeks 1 & 2)

MONDAY: The first Frisbees were manufactured on June 4, 1957. How old would the very first Frisbees be?

TUESDAY: Try out as many games as you can that you can play with a Frisbee. How about Frisbee baseball?

WEDNESDAY: Brainstorm with the group and come up with a list of other creative uses for a Frisbee other than as a toy.

THURSDAY: Throw a Frisbee as far as you can every other day for one week. Make a chart to measure your program. Were you able to increase your distance?

FRIDAY: Try to keep a Frisbee in the air (without touching it) as long as possible. Use a watch with a second hand to measure how long the Frisbee remains in flight.

JUNE – Week 2 Focus: June 27th – July 1st

STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	Stem Fair
- Identify some events around us that have repeating patterns, including the seasons of the year, day and night.	- Describe ways in which many plants and animals closely resemble their parents in observed appearance.	- Demonstrate that the way to change the motion of an object is to apply a force (give it a push or pull). The greater the force, the greater the change in the motion of the object.	-Identify tools and simple machines used for a specific purpose, e.g., ramp, wheel, pulley, lever. Describe how human beings use parts of the body as tools (e.g., teeth for cutting, hands for grasping and catching), and compare their use with the ways in which animals use those parts of their bodies.	-Stem Fair

JUNE – Week 2 Focus: June 27th – July 1st

THEME: “When Freedom Rings”

Monday	Tuesday	Wednesday	Thursday	Friday
Patriotic July Celebrations	Flag Flying	Patriotic Murals	Patriotic Presentations	Patriotic Poets
July 4, 1776 – The Continental Congress passed the Declaration of Independence, creating the United States. How old is the U.S. today? Have a birthday party to celebrate.	July 4, 1789 – Bastille Day is celebrated every July 14 th in France. What event led to this holiday? How is it like our July 4 th celebrations?	July 4, 1826 – John Adams and Thomas Jefferson both died on the 50 th anniversary of U.S. Independence. What was each man’s contribution to the fight for freedom.	July 1, 1867 – Canada Day is celebrated on this date when Canada became a self-governing dominion. Decorate the room with red and white for Canada’s flag.	July 4, 1884 – France presented the State of Liberty to the United States as a 100 th birthday present. What does the Statue of Liberty represent?

JULY – Week 1 Focus: July 5th – July 8th

STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	Stem Fair
- Understand that air is a mixture of gases that is all around us and that wind is moving air.	- Differentiate between living and nonliving things. Group both living and nonliving things according to the characteristics that they share.	- Identify objects and materials as solid, liquid or gas. Recognize that solids have a definite shape and liquids and gases take the shape of their container	- Identify and explain some possible uses for natural materials (e.g., wood, cotton, fur wool) and human-made materials (e.g., plastic, Styrofoam)	-Stem Fair

SPARK- Great Games

- **The focus of these games is on helping youth leaders establish a “positive activity environment” amongst the group, promoting cooperative behavior and developing social skills.**
- **Aerobic games are fast and fun. Youth enjoy the benefits of moderate to vigorous exercise while playing. SPARK calls this “Disguising the Fitness Element.**

Week: July 5th – July 8th

Spark Games condt..

Cooperative Games	Aerobic Games
The Good Ship SPARK Trains at the Station Roadway Truck Driver Grab the Apple Houdini Hoops Bodyguards Twist-n-Turn Bend-n-Stretch Partner Ball Exchange/Toss	5 Touches Cookie Monster I Want a Home Tag Safe Tag Clean Your Room T-Rex Tag Catch a Tail Doctor Tag Zoo Animals



Week: July 5th – July 8th cont

THEME: “Beachy” Good Fun

Monday	Tuesday	Wednesday	Thursday	Friday
Go to a beach or shoreline of any body of water, even a stream or river. See how many interesting things you can collect from the sea.	Create an ocean mural. Hang a large piece of blue paper on the wall. Decorate with sand, plants, brightly colored fish and shells all made from paper.	Serve a seafood snack. (Check for allergies!) Serve tuna, salmon, or sardines on bread or crackers. Take a fieldtrip to a local grocery store to visit the seafood counter.	Cut out a shape of a sandcastle from cardboard. Smear the board with glue and shake sand over entire area. Add shells and other items for decorations.	Have a beach party! Spread beach blankets and towels on the floor, have picnic foods, tall cool drinks, play beach music and beach volleyball. Wear swim suits/beach clothes.

All Over The World (Global Literacy)

- Islamabad and Pakistan

International Playtime

- Games and Dances of Pakistan

Creative Crafts for Clever Kids

- Paper Productions (July Weeks 1 & 2)

Performing Arts

- Let’s Dance

July - Week 2 Focus: July 11th - 15th

STEM

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	Stem Fair
- Recognize that the sun supplies heat and light to the earth and is necessary for life.	- Recognize that plants and animals have life cycles, and that life cycles vary for different living things.	- Describe the various ways that objects can move, such as in a straight line, zigzag, back and forth, round and round, fast and slow.	-Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, tooth-picks, straws, spools) to construct simple structures.	-Stem Fair

Warm-UP and Skill Drills	Activity
<p>Ready Position</p> <p>Ball Handling Drills</p> <p>Pivoting</p> <p>Free Dribbling</p> <p>Dribble Keep Away</p> <p>Chest Pass</p> <p>Bounce Pass</p> <p>Overhead Pass</p> <p>Passing Challenges</p> <p>One-Handed Shot</p> <p>Shooting Practice</p> <p>Lay-Ups</p>	<p>Keep Away</p> <p>3 Person Pass and Shoot</p> <p>3 Catch Game</p> <p>3 Catch Basketball</p> <p>“SPARK”</p> <p>Hoop Targets</p> <p>Around the Court</p> <p>Speed Shooter</p> <p>Triple Threat Basketball</p>

SPARK- Super Sports (Basketball) WEEK: July 11th – 15th

Monday	Tuesday	Wednesday	Thursday	Friday
Mix up salt and pepper in a	Color salt with colored chalk	Make salt dough for modeling. Mix 2/3 c.	Fill a glass with water and ice	Pop two batches of popcorn. Sprinkle

THEME: Salt & Pepper

All Over The World (Global Literacy)

- Pakistan

International Playtime

- Games and Dances of Pakistan (continued)
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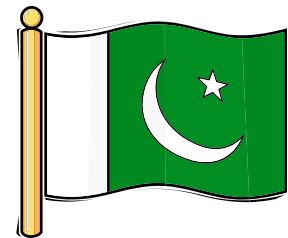
International Party Time

- To conclude journey to Pakistan

Performing Arts – Let’s Dance






July – Week 3 Focus: July 18th - 22nd



STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	STEM Fair

<p>- Recognize that water, rocks, soil, and living organisms are found on the earth's surface.</p> 	<p>-Recognize that animals (including humans) and plants are living things that grow, reproduce, and need food, air and water.</p>	<p>-Sort objects by observable properties such as size, shape, color, weight and texture.</p>	<p>-Identify and describe characteristic of natural material (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam)</p> 	<p>-STEM Fair</p> 
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SPARK- Super Sports (Baseball)

<p>Pickle Base Race 500 No Base Baseball Throw to Home Fungo Slip and Slide Bongoball Balloon Toss Wall Ball Getting Serious</p>
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Week 3: July 18th – 22nd cond.

THEME: In Outer Space

Monday	Tuesday	Wednesday	Thursday	Friday
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<p>NASA was created on July 29, 1968. What does “NASA” stand for? How many sites for developing, launching and tracking space flights does NASA have?</p>	<p>On July 15, 1965, the “Mariner IV” satellite transmitted the first close-up photos of Mars. If you lived on Mars what would you look like? Draw a Martian self-portrait.</p>	<p>John Glenn, Jr.’s birthday is July 18th. He was the first American to orbit the earth in a space ship. Draw a picture of what he saw from space.</p>	<p>Space Week is observed July 20-26 to celebrate when Neil Armstrong was the first man to walk on the moon July 20, 1969. What did he say during that historic occasion/</p>	<p>Cosmonaut Svetlan Savitskaya became the first woman to walk in space on July 25, 1984. Practice your own space walk. What would your movements be like?</p>
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ALL Over The World (Global Literacy)

- Beijing, China

International Playtime

- Games and Dances of China

Creative Crafts for Clever Kids

- Kitchen Capers

JULY – Week 4 Focus: July 25th – July 2

STEM

(Science, Technology, Engineering, Mathematics)



Monday	Tuesday	Wednesday	Thursday	Friday
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Earth and Space Science	Life Science	Physical Science	Technology/ Engineering	Stem Fair
-Identify some events around us that have repeating patterns, including the seasons of the year, day and night.	-Recognize that fossils provide us with information about living things that inhabited the earth years ago.	-Demonstrate that the way to change the motion of an object is to apply a force (give it a push or pull). The greater the force, the greater the change in the motion of the object.	-Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, tooth-picks, straws, spools) to construct simple structures.	-Stem Fair

The Children's Musical Play Production

Rockin' Tale of Snow White

Grand Finale: END OF JULY

The tale of Snow White has never felt so fresh and new with this funny adaptation that will make even the most jaded among us laugh out loud! New characters and comedic twists come to life as a modern mom reads the Brothers Grimm tale to her restless children. In addition to the well-known cast of the kind princess, evil queen, multiple dwarves and the morally conflicted Huntsman, this musical introduces us to some fresh new faces such as rhyme-happy ladies-in-waiting and a stick-in-the-mud governmental representative out to ruin everyone's good time.

Week: July 25th - July 29th continued

All Over the World (Global Literacy)

- **China (continued)**
- International Playtime**
- **Games and dances of China**
- Creative Crafts for Kids**
- **Kitchen Capers**



SPARK- Dynamic Dance Music

Ages 5-7	
<p>J.U.M.P.- Includes Let's Go to the Jungle, Fun, Fun, Fun, Kid's Star, Safety Song, Caterpillars to Butterflies, Kuma San, The Elephant's Rainbow, Spoons, Giraffe with Jingle Bells and more.</p> <p>All Time Favorite Dances- Includes the Chicken, Bunny Hop, Hora, Cotton Eyed Joe, Hokey Pokey and more.</p> <p>We All Live Together V.2- Includes the Boogie Walk, Muffin Man, The Freeze and many more.</p> <p>Folk Dance Fun- Includes the Mexican Hat Dance, Italian Tarantella, German Clapping Dance and more.</p> <p>Streamer & Ribbon Act- Includes La Burrita and eleven more fun activities.</p> <p>Chinese Ribbon Dance- Includes Chinese Ribbon Danceese Ribbon Dance.</p>	<p>All Time Favorite Dances- Includes the Conga, Alley Cat, Virginia Reel, Cotton Eyed Joe, Hora and more.</p> <p>Basic Sq. Dances Vol. 1- Includes Little Brown Jug, Shoo Fly, Red River Valley, and many more.</p> <p>Everybody Dance- Includes Gonna Make You Sweat/California Strut, Electric Slide, Achy Breaky Heart and many more.</p> <p>Internat. Folk Dance- Includes Troika, Pata Pata and more.</p> <p>Chinese ribbon Dance- Includes the Chinese Ribbon Dance.</p> <p>Red Hot Peppers- Hip Hop/ Salsa jump rope activities.</p>

WEEK 1 – Focus: August 1st – 5th

STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/ Engineering	Stem Fair
Explain how air, temperature, moisture, wind, speed, direction, and precipitation make up the weather in a particular place and time. Recognize that the sun supplies heat and light to the earth and is necessary for life.	Give examples of how inherited characteristics may change over time as adaptations to changes in the environment that enable organisms to survive, e.g., shape of beak or feet, placement of eyes on head, length of neck, shape of teeth, color.	Identify and classify objects and materials that conduct electricity and objects and materials that are insulators of electricity.	Compare natural systems with mechanical systems that are designed to serve similar purposes, e.g., a bird's wings as compared to an airplane's wings.	Stem Fair

All Over the World (Global Literacy)

- **Brazil**

1. International Playtime

- **Games and dances of Brazil**

Creative Crafts for Kids

- **Clay Dough Creations**

- **Children's Musical Play cont'**

Week: August 1st – August 5th (Condt)

THEME: “Carnival Fun”

Monday	Tuesday	Wednesday	Thursday	Friday
Use refrigerator boxes to create booths for various games like the bean bag toss game. Fill an empty soda can with pebbles or sand and knock it off a ledge with a tennis ball.	Other booths can include games like dropping clothes pins in a bottle, pin the tail on the donkey, and a hula hoop contest or demonstration.	Another booth idea is to have a jar filled with jelly beans and participants have to guess how many are in the jar. Winner gets the jar of jelly beans.	Set up food booths serving light snacks like pretzels and nachos. Set up lawn games like ring toss.	Find ways for the kids to earn their tickets all month for spending at the carnival. Invite the parents too.

SPARK- Super Sports (Soccer) (Weeks 1 &2)

Warm-UP and Skill Drills	Activity
<p>Cue Practice Walk and Dribble Sideline Throw-In Pass and Trap Challenges Soccer Marbles Dribble Keeps Away</p>	<p>Target Soccer Kick for Distance Get Your Ball Shooting on Goal Small-Sided Soccer Games Soccer Baseball (All Run) Soccermania</p>

Week 2 – Focus: August 8th – August 12th

STEM

(Science, Technology, Engineering, Mathematics)

Monday	Tuesday	Wednesday	Thursday	Friday
- Recognize and discuss the different properties of soil, including color, texture (size of particles), the ability to retain water and the ability to support the growth of plants.	-Differentiate between observed characteristics of plants and animals that are fully inherited. (e.g., color of flower, shape of leaves, color of eyes, number of appendages) and characteristics that are affected by the climate or environment (e.g., browning of leaves due to too much sun, language spoken.).	-Give examples of how energy can be transferred from one form to another. -Recognize that electricity in circuits requires a complete loop through which an electrical current can pass, and that electricity can produce light, heat and sound.	-Describe different ways in which a problem can be represented, e.g., sketches, diagrams, graphic organizers and lists. -Identify relevant design features (e.g., size, shape, weight) for building a prototype of a solution to a given problem.	Children's Festival

All Over the World (Global Literacy)

- **CHILDREN'S** China, South Africa, Pakistan and Brazil

FRIDAY: FESTIVAL w/ emphasis on China, South Africa, Pakistan and Brazil

Week: August 8th – August 12th (condt)

THEME: "Vintage Games"

Monday	Tuesday	Wednesday	Thursday	Friday
"Vintage" games may be brand new to many children. Play with marbles, introduce jump rope rhymes, and teach some yo-yo tricks.	Learn to play jacks.	Have a hula hoop tournament. How long can you keep the hoop spinning around your waist? What else can you play with a hula hoop?	Use sidewalk chalk to draw a hopscotch game on the sidewalk.	In a ball field or grassy area, play Red Rover or Kick the Can.

Creative Crafts for Kids

- Clay Dough Creations**

All Over the World (Global Literacy)

- **Pakistan**

International Playtime

- **Games and dances of Pakistan continued**

International Party Time

- **To conclude journey to Pakistan**

Performing Arts

- **Let's Dance**

“When Freedom Rings”

Focus- July 18th- July 29th Salt & Pepper

Monday	Tuesday	Wednesday	Thursday	Friday
Mix up salt and pepper in a cup. Pour some water into the cup. Can you guess which will float to the top? (It's the salt.)	Color salt with colored chalk and layer the different colors in empty baby food jars.	Make salt dough for modeling. Mix 2/3 c. of salt, 1/2c. flour and 1/3c. water. After sculpting, air dry or bake in 350 degree oven until hard.	Fill a glass with water and ice cubes. Wait a few minutes. Place a string on the ice cubes. Sprinkle salt on the cubes. After a few seconds pull the strings. What happens?	Pop two batches of popcorn. Sprinkle salt on one batch leave the other batch unsalted. Conduct a taste test to determine which batch is more popular.

All Over the World (Global Literacy)

- Beijing, China(Week 1 and 2)

International Playtime

- Games and dances of China

Creative Crafts for Clever Kids

- Kitchen Capers (Weeks 1 and 2)



SPARK- Super Sports (Baseball)

**Pickle
Base Race
500
No Base Baseball
Throw to Home
Fungo
Slip and Slide
Bongoball
Balloon Toss
Wall Ball
Getting Serious**

Monday	Tuesday	Wednesday	Thursday	Friday
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<p>NASA was created on July 29, 1968. What does "NASA" stand for? How many sites for developing, launching and tracking space flights does NASA have?</p>	<p>On July 15, 1965, the "Mariner IV" satellite transmitted the first close-up photos of Mars. If you lived on Mars what would you look like? Draw a Martian self-portrait.</p>	<p>John Glenn, Jr.'s birthday is July 18th. He was the first American to orbit the earth in a space ship. Draw a picture of what he saw from space.</p>	<p>Space Week is observed July 20-26 to celebrate when Neil Armstrong was the first man to walk on the moon July 20, 1969. What did he say during that historic occasion/</p>	<p>Cosmonaut Svetlan Savitskaya became the first woman to walk in space on July 25, 1984. Practice your own space walk. What would your movements be like?</p>
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Focus- July 18th- July 29th continued

All Over the World (Global Literacy)

- **China**

International Playtime

- **Games and dances of China**

Creative Crafts for Kids

- **Kitchen Capers**

SPARK- Dynamic Dance Music

Ages 5-7	Ages 8-14
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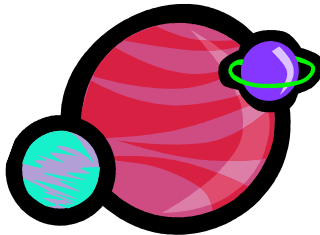
<p>J.U.M.P.- Includes Let's Go to the Jungle, Fun, Fun, Fun, Kid's Star, Safety Song, Caterpillars to Butterflies, Kuma San, The Elephant's Rainbow, Spoons, Giraffe with Jingle Bells and more.</p> <p>All Time Favorite Dances- Includes the Chicken, Bunny Hop, Hora, Cotton Eyed Joe, Hokey Pokey and more.</p> <p>We All Live Together V.2- Includes the Boogie Walk, Muffin Man, The Freeze and many more.</p> <p>Folk Dance Fun- Includes the Mexican Hat Dance, Italian Tarantella, German Clapping Dance and more.</p> <p>Streamer & Ribbon Act- Includes La Burrita and eleven more fun activities.</p> <p>Chinese Ribbon Dance- Includes the Chinese Ribbon Dance.</p>	<p>All Time Favorite Dances- Includes the Conga, Alley Cat, Virginia Reel, Cotton Eyed Joe, Hora and more.</p> <p>Basic Sq. Dances Vol. 1- Includes Little Brown Jug, Shoo Fly, Red River Valley, and many more.</p> <p>Everybody Dance- Includes Gonna Make You Sweat/California Strut, Electric Slide, Achy Breaky Heart and many more.</p> <p>Internat. Folk Dance- Includes Troika, Pata Pata and more.</p> <p>Chinese ribbon Dance- Includes the Chinese Ribbon Dance.</p> <p>Red Hot Peppers- Hip Hop/ Salsa jump rope activities.</p>
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Focus- July 18th - July 29th

In Outer Space

Monday	Tuesday	Wednesday	Thursday	Friday
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<p>NASA was created on July 29, 1968. What does “NASA” stand for? How many sites for developing, launching and tracking space flights does NASA have?</p>	<p>On July 15, 1965, the “Mariner IV” satellite transmitted the first close-up photos of Mars. If you lived on Mars what would you look like? Draw a Martian self-portrait.</p>	<p>John Glenn, Jr.’s birthday is July 18th. He was the first American to orbit the earth in a space ship. Draw a picture of what he saw from space.</p>	<p>Space Week is observed July 20-26 to celebrate when Neil Armstrong was the first man to walk on the moon July 20, 1969. What did he say during that historic occasion/</p>	<p>Cosmonaut Svetlan Savitskaya became the first woman to walk in space on July 25, 1984. Practice your own space walk. What would your movements be like?</p>
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STEM

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/Engineering	Stem Fair

<p>- Recognize that the sun supplies heat and light to the earth and is necessary for life.</p>	<p>- Recognize that plants and animals have life cycles, and that life cycles vary for different living things.</p>	<p>- Describe the various ways that objects can move, such as in a straight line, zigzag, back and forth, round and round, fast and slow.</p>	<p>-Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, tooth-picks, straws, spools) to construct simple structures.</p>	<p>-Stem Fair</p>
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Vintage Games

STEM (5th-8th Grade)- ALL AUGUST

NASA KLASS (Kennedy Launch Academy Simulation System) Program and Curriculum

The KLASS Curriculum is a series of STEM (Science, Technology, Engineering and Math) lesson plans with supporting interactive resources that build to a simulated shuttle launch. The lessons are designed for use with elementary through middle school students. There are multiple formats that allow for easy customization.

STEM (3rd-5th Grade)

STEM (Pre-K- 2nd Grade)

Monday	Tuesday	Wednesday	Thursday	Friday
Earth and Space Science	Life Science	Physical Science	Technology/ Engineering	Stem Fair
-Identify some events around us that have repeating patterns, including the seasons of the year, day and night.	-Recognize that fossils provide us with information about living things that inhabited the earth years ago.	-Demonstrate that the way to change the motion of an object is to apply a force (give it a push or pull). The greater the force, the greater the change in the motion of the object.	-Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, tooth-picks, straws, spools) to construct simple structures.	-Stem Fair