

# OPTIMAL LEARNING PRE-K & KINDERGARTEN S.T.E.A.M. CAMP 2019



<b>THEME</b>	<b>SESSION 1 WEEK 1</b>	<b>COMPUTERS June 17th - June 21st 2019</b>
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Campers will learn to understand actions that can control software programs. Campers will use computers for a variety of purposes (e.g. listening and interacting with storybooks, working with numbers, playing games and drawing). During this week we will be introducing the play "The Rainbow Fish" to our campers. Throughout the next few weeks campers will be preparing, learning and rehearsing for the performance of this play. All components of the theatre will be presented to our campers which will encompass the 5 elements of the arts: Visual, Media, Music, Dance and Theatre.

<b>S.T.E.A.M.</b>	<b>COMPUTERS</b>	Campers will identify the characteristics and uses of computer hardware and operating systems.
<b>SPARK</b>	<b>BUILDING BLOCKS</b>	Campers will engage in body & spatial awareness, listening skills, following directions, body part identification, creativity. Activities include: Freeze Dance, Bubble Fun, Simon Says
<b>THEATRE</b>		With prompting & support campers will invent & inhabit an imaginary elsewhere in dramatic play.
<b>DANCE</b>		Campers will explore movement inspired by a variety of stimuli music, sound, and objects.
<b>MUSIC</b>		Campers will explore and learn to understand that creative ideas & feeling can influence musician's work.
<b>MEDIA ARTS</b>		Campers will discover and share ideas for media artworks using play and experimentation.
<b>VISUAL ARTS</b>		Campers will create art using pieces of old computers combined with a variety of media.

<b>FIELDTRIPS</b>	<b>Splashpark</b>		<b>TBA</b>
	<b>GERMANTOWN POOL</b>		<b>TBA</b>

<b>THEME</b>	<b>SESSION 1 WEEK 2</b>	<b>FARM TO TABLE June 24th - June 28th 2019</b>
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Technology & Engineering: Land Reuse Models activities: human impact on the environment; Mathematics: average mean), Health nutrition. This week is all about teaching our campers about environmental sustainability. Campers will learn about the farm-to-table cycle incorporating science, engineering and technology activities such as growing vegetables from seeds, local food exploration, as well as cooking and wool working (felting). Campers will also have the opportunity to explore the technological evolution of farming.

<b>S.T.E.A.M.</b>	<b>ENGINEERING</b>	Campers will engage in engineering and technology activities such as growing vegetables from seeds, and local food exploration
<b>SPARK</b>	<b>PARACHUTE PLAY</b>	Campers will engage in group cooperation, listening skills, general coordination, locomotor and non-locomotor skills, strength, and creative movement. Activities include: Shake, Rattle and Roll, Rock and Row and Ocean Waves
<b>THEATRE</b>		Campers will act out scenes from the play "The Rainbow Fish" with their peers and express original ideas.
<b>DANCE</b>		Campers will invent their own dance to accompany certain music genres
<b>MUSIC</b>		Campers will participate in teachers guided music and movement activities
<b>MEDIA ARTS</b>		Campers will create and capture art contents for media arts productions, identifying basic principles such as pattern and repetition.
<b>VISUAL ARTS</b>		Campers will start to create paintings focusing on the backdrop of "The Rainbow Fish".

<b>FIELDTRIPS</b>	<b>Farmers market</b>		<b>TBA</b>
	<b>GERMANTOWN POOL</b>		<b>TBA</b>

# OPTIMAL LEARNING PRE-K & KINDERGARTEN S.T.E.A.M. CAMP 2019



## THEME SESSION 2 WEEK 1 **UNEARTH THE EARTH July 1st - July 5th, 2019**

Campers will continue to rehearse for the play. Campers will learn about atmospheric processes, weather patterns and the water cycle.

<b>S.T.E.A.M.</b>	<b>WEATHER PATTERNS</b>	Campers will explore that short term weather conditions change daily and that water can change forms but the amount stays the same.	
<b>SPARK</b>	<b>HOOP IT UP</b>	Campers will engage in large object manipulation, gross motor coordination, body and spatial awareness, tracking, balance, rhythm, independent movement choice, and cooperation. Activities include: Happy Helicopters, Go Car Go, Circus	
<b>THEATRE</b>		Campers will make, discuss and assign group decisions to identify responsibilities required to present a play.	
<b>DANCE</b>		Campers will express an idea, image or feeling through improvised movement.	
<b>MUSIC</b>		Campers will explore and learn about music contrasts such as high/low, loud/soft same/different.	
<b>MEDIA ARTS</b>		With guidance campers will combine art forms & media content such as dance and video to form media artworks.	
<b>VISUAL ARTS</b>		Campers will create paintings, sculptures & drawing using non traditional materials, eg. Sticks, feathers, plants	
<b>FIELDTRIPS</b>		<b>DISCOVERY STATION-Hagerstown</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

\*\*\*\* NO CAMP ON JULY 4TH, 2019 \*\*\*\*

## THEME SESSION 2 WEEK 2 **UNEARTH THE EARTH July 8th - July 12th 2019**

Campers will learn about Earth's composition and structure. Campers will focus on the area of stage design and setup while continuing to rehearse for the play.

<b>S.T.E.A.M.</b>	<b>EARTH'S MATERIALS</b>	Campers will explore a variety of Earth's materials: solid rocks, soils, liquid water and gases of the atmosphere.	
<b>SPARK</b>	<b>RIBBONS, SCARVES &amp; BALLOONS</b>	Campers will be working on hand-eye coordination, rhythm, creativity, self expression, tossing, catching and independent movement choices. Activities include: Counting Catches, Balloon Color Race	
<b>THEATRE</b>		Campers will create a set design for a play & learn theatre terminology: character, role, setting, story, etc....	
<b>DANCE</b>		Campers will demonstrate tempo contrasts with movement that match to the tempo of sound stimuli.	
<b>MUSIC</b>		Campers will experiment using various items to repeat and create a beat and rhythm.	
<b>MEDIA ARTS</b>		Campers will have the opportunity to demonstrate basic skills such as handling tools and making choices in creating	
<b>VISUAL ARTS</b>		Under guidance Campers will create play backdrop taking size and distance to the audience into consideration.	
<b>FIELDTRIPS</b>		<b>Rock n Jump Trampoline Park</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

# OPTIMAL LEARNING PRE-K & KINDERGARTEN S.T.E.A.M. CAMP 2019



<b>THEME</b>	<b>SESSION 3 WEEK 1</b>	<b>SHARK WEEK July 15th - July 19th 2019</b>
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SCIENCE: Needs of living things, adaptations and habitats. oceanography. An entire week dedicated to learning more about sharks, what they look like, how they swim, what they eat, and where they live. Campers will delve into the amazing world of sharks while exploring shark biology and marine science. They will discover the differences between other fish and sharks, inspect shark teeth and observe live sharks in their habitat.

<b>S.T.E.A.M.</b>	<b>SCIENCE</b>	Exploration of habitats and marine life	
<b>SPARK</b>	<b>FLUFFBALL FUN</b>	Campers will be working on small object manipulation, catching, rolling, accuracy, underhand and overhand throwing. Activities include: Goal Line rolling, Throw for Distance, Counting Catches	
<b>THEATRE</b>		Campers will be able to refine the scenes and practice their roles through rehearsal.	
<b>DANCE</b>		Campers will identify and apply different characteristics to movement e.g. slow, wavy, smooth	
<b>MUSIC</b>		Campers will discuss how music can evoke emotions and how it makes them feel.	
<b>MEDIA ARTS</b>		Campers will recognize and share components and messages in media artworks	
<b>VISUAL ARTS</b>		Campers will explore colors and how they can relate to moods. They will create a piece of art using color to reflect the mood they choose.	
<b>FIELDTRIPS</b>		<b>Sant Ocean Hall at the National Museum of Natural History, DC</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

<b>THEME</b>	<b>SESSION 3 WEEK 2</b>	<b>TREASURE HUNTERS &amp; EXPLORERS July 22nd - July 26th 2019</b>
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SCIENCE: magnetism (making compasses) SOCIAL STUDIES: explorers. Campers will have the opportunity to locate and preserve ancient artifacts "Indiana Jones" style. Decipher ancient texts, follow treasure maps, geo caching, search abandoned temples and avoid the booby traps left to protect the priceless treasures of long ago. All this while learning about ancient civilizations such as the Aztecs, Mayans and Incas.

<b>S.T.E.A.M.</b>	<b>SCIENCE</b>	Campers will learn that people are always inventing new ways to solve problems and that new objects can be created out of physical materials (e.g. paper, cloth).	
<b>SPARK</b>	<b>BEANBAG BONANZA</b>	Campers will learn all about small object manipulation,, tracking, underhand and overhand throwing. Activities include: Color Toss, Pancake Flip, Color Race	
<b>THEATRE</b>		Campers will be able to describe the story's character actions by use of body, face, voice and gestures.	
<b>DANCE</b>		Campers will explore dances from different cultures	
<b>MUSIC</b>		Campers will demonstrate awareness of expressive qualities for specific purposes.	
<b>MEDIA ARTS</b>		Campers will use personal experiences and choices in making media artworks	
<b>VISUAL ARTS</b>		Campers will explore cave paintings and then tell their own story in the style of a cave painting.	
<b>FIELDTRIPS</b>		<b>Greenbrier State Park Lake</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

# OPTIMAL LEARNING PRE-K & KINDERGARTEN S.T.E.A.M. CAMP 2019



THEME	SESSION 4 WEEK 1	EVOLUTION July 29th - August 2nd 2019	
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This week campers will learn about biological evolution and the diversity of life.

<b>S.T.E.A.M.</b>	<b>WHAT WE NEED TO LIVE</b>	Campers will have daily hands on fun projects to learn that plants and animals need certain resources for energy and growth.	
<b>SPARK</b>	<b>ROPE ACTION</b>	Campers will focus on balance, strength, endurance, rates of movement choice, and cooperation. Activities include: Firefighter Warmups, Baby Rabbits and Musical Triangles	
<b>THEATRE</b>		Campers will rehearse with props and non representational materials.	
<b>DANCE</b>		Campers will explore suggestions to change movement in short remembered sequences	
<b>MUSIC</b>		Campers will explore various string instruments.	
<b>MEDIA ARTS</b>		Campers will share ideas relating media artworks & everyday life such as daily activities	
<b>VISUAL ARTS</b>		Campers will create paintings, sculptures & drawing with a variety of media, based on daily themes.	
<b>FIELDTRIPS</b>		<b>Green Meadows Farm - Petting Farm</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

THEME	SESSION 4 WEEK 2	EVOLUTION August 5th - August 9th 2019	
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This week campers will learn to understand the principles of heredity.

<b>S.T.E.A.M.</b>	<b>HEREDITY</b>	Campers will have daily hands on fun projects to learn that plants and animals closely resemble their parents.	
<b>SPARK</b>	<b>HAVE A BALL</b>	Campers will practice hand eye coordination, rolling, bounce and catch, self toss and catch. Activities include: Bounce It! Toss It!, Bounce and Catch	
<b>THEATRE</b>		Campers will identify ways in which gestures and movement may be used to create or retell a story.	
<b>DANCE</b>		Campers will demonstrate movement characteristics along with movement vocabulary e.g. floppy fall, joyful spin, etc...	
<b>MUSIC</b>		Campers will explore various keyboard instruments	
<b>MEDIA ARTS</b>		With guidance campers will interact safely & appropriately with media arts tools and environments	
<b>VISUAL ARTS</b>			
<b>FIELDTRIPS</b>		<b>Dinosaur Park (Laurel)</b>	<b>TBA</b>
		<b>GERMANTOWN POOL</b>	<b>TBA</b>

# OPTIMAL LEARNING PRE-K & KINDERGARTEN S.T.E.A.M. CAMP 2019



THEME	SESSION 5 WEEK 1	SENSES August 12th - August 16th 2019		
This week campers will have fun exploring their 5 senses such as observing through a rose colored world, making a sound machine and lots of other hands on activities				
S.T.E.A.M.	SUPER SENSES	Campers will have daily hands on fun science experiments discovering their senses in unusual ways.		
SPARK	FANCY FEET	Campers will practice their foot-eye coordination, kicking for distance and accuracy, walk & kick, run & kick. Activities include: Cone Around, Kick and Score		
THEATRE		Campers will learn that voice & sound are fundamental to dramatic play.		
DANCE		Campers will select a prop to use as part of their dance.		
MUSIC		Campers will explore various beat instruments		
MEDIA ARTS		Campers will learn to understand the message a media artwork can convey		
VISUAL ARTS		Campers will create art for the senses. Touch, smell, hear		
FIELDTRIPS		Senses at the Park. Great Seneca Tire Park		TBA
		GERMANTOWN POOL		TBA

THEME	SESSION 5 WEEK 2	NATIVE AMERICAN TECHNOLOGIES August 19th - August 23rd 2019		
TECHNOLOGY: Survival techniques including tool building, shelter construction, SOCIAL STUDIES: people, places and environments. This week campers will learn about local native American tribes. They will explore how they lived, their customs and technologies, traditional skills and handmade tools they used for their survival. Campers will also design and make nutritious, healthy snacks that can be eaten "on the go".				
S.T.E.A.M.	ENGINEERING	Campers will create shelters, practice native american skills and create nutritious meals		
SPARK	SUPER STUNTS	Campers will engage in gross motor coordination, body & kinesthetic awareness, agility, balance, strength, creative movement, independent movement choice, and cooperation. Activites include: Line Walking, I See I See, Friend to Friend		
THEATRE		Campers will learn to alter voice & body to expand & articulate nuances of a character.		
DANCE		Campers will learn about Native American dances.		
MUSIC		Campers will be able to perform songs for their peers.		
MEDIA ARTS		Campers will pictures using art programs		
VISUAL ARTS		Campers will explore native american art		
FIELDTRIP		IN HOUSE FIELD TRIP - TBD	TBA	TBA

Please pack BAGGED, non-heatable lunches on fieldtrip days. Your child must wear the orange OPTIMAL camp t-shirt on all fieldtrips. Make sure your child wears appropriate clothing, hat and shoes on field trip days and apply sunscreen at home before your child arrives at camp. Flip flops and sandals are NOT encouraged. OPTIMAL will be closed on August 31st and September 1st for classroom preparation and teacher training.



Have a S.T.E.A.M. filled summer at OPTIMAL

