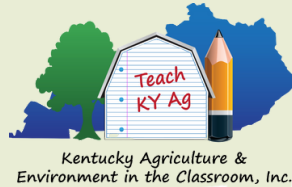


# FIELD TRIPS

The Explorium provides an immersive, learn-through-play, field trip experience.

Use our galleries and exhibits to enrich your teaching in the classroom and participate in an engaging Explorium enrichment program to enhance the experience!

**SPONSORED BY:**



## PLAN YOUR GROUP'S VISIT

### ● *A Day at the Museum!*

\$7.00\*\*\* per student

Includes:

- Time in the museum
- Lunch room rental

### ● *Explore More!*

\$9.00\*\*\* per student

Includes:

- An Explorium Enrichment program
- Time in the museum
- Lunch room rental

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\*\*\*Special pricing available for Title I Schools as part of our Explorium Experiences Fund!\*\*\*

### ● *Chaperones*

School/group personnel are FREE!

Any chaperones not affiliated with the school/group will be charged at the front desk upon arrival, at the same rate as the child's cost for the visit.

**BOOK NOW!**

Explorium of Lexington

☎ 859-258-3253

✉ [explore@explorium.com](mailto:explore@explorium.com)



# FIELD TRIP ENRICHMENT

No Field Trip to The Explorium is complete without an Enrichment Program!

Choose from one of the 8 exciting Enrichment themes to enhance the field trip experience for students and teachers.



# FIELD TRIP ENRICHMENT THEMES

## 1 *The Human Body: Starring Stuffee*

Students explore the inner workings of the human body through the help of our over sized friend Stuffee.

## 2 *Weather Wonders*

Students participate in experiments to learn how clouds are formed, touch some lightning, and bring tornados to the classroom.

## 3 *Forces of Flight*



Students take an in-depth look at aerodynamics, forces, & physics to build the perfect paper airplane.

## 4 *Bubble Science*

Students participate in experiments to learn the science behind bubbles and what makes the perfect bubble solution.

## 5 *Creative Colors*

Students explore primary and secondary colors, warm and cool colors all while making a unique artwork.

## 6 *Kentucky Farm to Table*



Students investigate how food gets from the farm to the table. Students look at raw ingredients grown in Kentucky to how they become a meal.

## 7 *Far From Basic*

Students participate in experiments to determine the acidity of a solution using a pH indicator to determine acids and bases.

## 8 *1, 2, 3-D*

Students learn about shapes in all three dimensions and explore 3-D printing.



**BOOK NOW!**

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# FIELD TRIP ENRICHMENT KY ACADEMIC STANDARDS

## *The Human Body: Starring Stufbee*

	Health
Kindergarten	K.1.2, K.7.1
First Grade	1.1.3, 1.7.1
Second Grade	2.1.2, 2.7.3
Third Grade	3.1.5, 3.7.2
Fourth Grade	4.1.2, 4.7.2

## *Weather Wonders*

	Science
Kindergarten	K-PS3-1, K-ESS3-2
First Grade	1-ESS1-2
Second Grade	2-PS1-4, 2-ESS2-3
Third Grade	3-PS2-3, 3-ESS2-1
Fourth Grade	4-ESS3-2

## *Bubble Science*

	Science
Kindergarten	K-2-ETS1-3
First Grade	K-2-ETS1-3
Second Grade	K-2-ETS1-3
Third Grade	3-5-ETS1-3
Fourth Grade	3-5-ETS1-3
Fifth Grade	5-PS1-1, 5-PS1-3, 5-PS1-4

## *Forces of Flight*

	Science
Third Grade	3-PS2-1, 3-PS2-2, 3-5-ETS1-3
Fourth Grade	4-PS3-1, 4-PS3-3
Fifth Grade	5-PS2-1

## *Creative Colors*

	Math	Art
Kindergarten	KY.K.G.1, KY.K.G.2	VA:Re7.2.K
First Grade	KY.1.G.1	VA:Cr3.1.1
Second Grade	KY.2.G.1	VA:Pr7.1.2
Third Grade	KY.3.G.1	VA:Cr3.1.3

## *Kentucky Farm to Table*

	Social Studies
Kindergarten	K.E.IC.1, K.G.MM.1
First Grade	1.E.MI.1, 1.E.KE.1
Second Grade	2.E.MI.2, 2.E.KE.1
Third Grade	3.E.MI.1, 3.E.MI.2
Fourth Grade	4.E.MI.2
Fifth Grade	5.E.MI.1

## *Far From Basic*

	Science
Second Grade	2-PS1-1, 2-PS1-2
Third Grade	3-5-ETS1-3
Fourth Grade	3-5-ETS1-3
Fifth Grade	5-PS1-3, 3-5-ETS1-3

## *1, 2, 3!*

	Math
Kindergarten	KY.K.G.4, KY.K.G.5
First Grade	KY.1.G.1, KY.1.G.2
Second Grade	KY.2.G.1
Third Grade	KY.3.G.1
Fourth Grade	KY.4.G.2

## ● AROUND KENTUCKY GALLERY

### Approaches to Learning

- 2.2: Uses imagination in play and interactions with others.
- 3.4: Initiates exploration, investigations and interactions.

### Mathematics

- 1.4: Describes and compares measurable attributes of objects.

## ● EXPLORIUM WAY

### Social Studies

- 1.3: Shows an awareness of fundamental economic concepts.
- 1.5: Demonstrates understanding of roles and relationships within families and the community.

### Approaches to Learning

- 2.1: Uses creative approaches for learning.
- 2.2: Uses imagination in play and interactions with others.
- 3.1: Explores a wide ranges of topics, ideas, and interests.

## ● HEALTHY ME

### Health/Mental Wellness

- 1.1: Demonstrates knowledge and skills that contribute to healthy lifestyles.

### Approaches to Learning

- 2.2: Uses imagination in play & interactions with others.
- 3.2: Initiations explorations, investigations, and interactions.

## ● PHYSICS AND SPACE

### Science

- 1.1: Observes & compares observable phenomena.
- 1.2: Uses a variety of tools to explore the environment.
- 1.3: Uses aspects of the scientific process to learn about the world.

### Mathematics

- 1.2: Identifies and uses common shapes and concepts about position.
- 1.3: Uses the attributes of objects for comparison and patterning.

## ● MARKSBURY ENGINEERING

### Mathematics

- 1.2: Identifies and uses common shapes and concepts about position.
- 1.3: Uses the attributes of objects for comparison and patterning.

### Physical Education

- 1.3: Combines a sequence of several motor skills with control.
- 1.4: Performs fine motor movements and tasks using eye-hand coordination.

### Approaches to Learning

- 2.1: Use creative approaches for learning.

### Science

- 1.2: Uses a variety of tools to explore the environment.
- 1.3: Uses aspects of the scientific process to learn about the world.

## ● SMALL WORLD & BONE ZONE

### Social Studies

- 1.1: Differentiates between events that happen in the past, present and future.

### Science

- 1.1: Observes & compares observable phenomena.

## ● HOMES AROUND THE WORLD

### Social Studies

- 1.1: Differentiates between events that happen in the past, present and future.
- 1.5: Demonstrates understanding of roles and relationships with families and the community.
- 1.6: Identifies and respects similarities and differences among familiar people and their cultural traditions.

### Approaches to Learning

- 2.2 : Uses imagination in play and interactions with others.

## ● BUBBLE ZONE

### Physical Education

- 1.4: Performs fine motor movements and tasks using eye-hand coordination.

### Approaches to Learning

- 1.2: Persists at challenging tasks.
- 3.2: Initiates explorations, investigations, and interactions.
- 4.1: Takes risks and attempts new experiences that are challenging.



## AROUND KENTUCKY GALLERY

### Mathematics

- KY.K.MD.1 Describe measurable attributes (length, height, weight, width, depth) of an object or a set of objects using appropriate vocabulary.

## EXPLORIUM WAY

### Social Studies

- K.C.CP.1: Explain the purpose of local government.
- K.C.PR.2: Describe consequences of following or not following rules.
- K.E.MI.1: Describe why people purchase goods and services.
- K.E.ST.1: Demonstrate ways trade can be used to obtain goods and services.

### Mathematics

- KY.K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality.

### Visual & Performing Arts

- MU:Cr1.1.K: With guidance, explore and experience music concepts.
- TH:Cr1.1.K: With prompting and support, use nonrepresentational materials to create props, puppets, and costume pieces for dramatic play or a guided drama experience.

### Career Studies

- F.P.7: Investigate different ways to save money (e.g., piggy bank, local bank, credit union).

## HEALTHY ME

### Health Education

- K.1.2. Describe the importance of choosing healthy foods and beverages and identify the benefits of drinking water.
- K.1.5. Identify the benefits of personal health care practices.
- K.2.1. Identify people at home and in the community who influence personal health decisions and behaviors.
- K.3.1. Identify school and community health care helpers.

### Physical Education

- K.3.PF1. Identify the importance of daily activity.
- K.3.N1. Recognize that food provides energy for physical activity.

## ● PHYSICS AND SPACE

### Mathematics

- KY.K.G.1 Name and describe shapes in the environment.

### Physical Education

- K.1.MS1. Explore manipulative skills with a variety of objects using performance cues.
- K.2.SD1. Explore travel in general space with different speeds.

### Science

- K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

## ● MARKSBURY ENGINEERING

### Science

- K-2-ETS1-1. Ask questions, make observations, and gather information about a situation that people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
- K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
- K-2-ETS1-3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.
- K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

### Physical Education

- K.1.MS1. Explore manipulative skills with a variety of objects using performance cues.

## ● SMALL WORLD & BONE ZONE

### Science

- K-LS1-1. Use observations to describe patterns of what plants and animals (including humans) need to survive.
- K-ESS2-2. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.

## ● HOMES AROUND THE WORLD

### Social Studies

- K.G.HI.1: Identify and describe the culture of communities.
- K.G.HE.1: Identify ways humans interact with their environment.
- K.H.CH.1: Identify and describe how communities change over time.

## ● BUBBLE ZONE

### Physical Education

- K.1.MS1. Explore manipulative skills with a variety of objects using performance cues.

## AROUND KENTUCKY GALLERY

### Social Studies

- 1.H.KH.1: Compare life in Kentucky in the past to life in Kentucky today.
- 1.G.HE.1: Describe ways people modify their environment.

### Mathematics

- KY.1.MD.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.

## EXPLORIUM WAY

### Social Studies

- 1.C.RR.1: Identify the rights and responsibilities of citizens.
- 1.E.ST.1: Explain why the goods and services people in a community produce are traded with those produced in other communities.

### Mathematics

- KY.1.MD.3 Assign values to time and money.

### Visual & Performing Arts

- MU:Pr4.2.1: When analyzing selected music, read and perform rhythmic patterns using iconic or standard notation.
- TH:Cr1.1.1: Collaborate with peers to conceptualize costumes and props in a guided drama experience.

### Career Studies

- F.P.7: Investigate different ways to save money (e.g., piggy bank, local bank, credit union).

## HEALTHY ME

### Health Education

- 1.1.2: Describe the types of foods and beverages that should be limited.
- 1.1.8. Identify people who can help when someone is injured or suddenly ill.
- 1.5.1. Identify a health-related situation that requires decision-making skills.

### Physical Education

- 1.3.N1. Differentiate between healthy and unhealthy foods.
- 1.5.H1. Acknowledge the health benefits of participating in physical activities.

## BUBBLE ZONE

### Physical Education

- 1.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.

## ● PHYSICS AND SPACE

### Mathematics

- KY.1.G.2 Compose shapes.

### Physical Education

- 1.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.
- 1.2.SD1. Differentiate between fast and slow speeds as well as light and strong force.

### Science

- 1-PS4-2. Make observations to construct an evidence-based account that objects can be seen only when illuminated.
- 1-PS4-3. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.

## ● MARKSBURY ENGINEERING

### Mathematics

- KY.1.MD.4 Investigate questions involving categorical data.

### Physical Education

- 1.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.

### Science

- K-2-ETS1-1. Ask questions, make observations, and gather information about a situation that people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
- K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

## ● SMALL WORLD & BONE ZONE

### Science

- 1-LS1-1. Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
- 1-LS1-2. Read texts and use media to determine patterns in the behavior of parents and offspring that help offspring survive.

## ● HOMES AROUND THE WORLD

### Social Studies

- 1.G.HI.1: Describe how culture and experience influence the cultural landscape of places and regions within their community and state.
- 1.G.HE.1: Describe ways people modify their environment.

## AROUND KENTUCKY GALLERY

### Social Studies

- 2.G.MM.1: Explain patterns of human settlement in North America.
- 2.G.KGE.1: Analyze reasons for similarities and differences in the settlement patterns for North America and Kentucky.

### Science

- 2-ESS2-2. Develop a model to represent the shapes and kinds of land and bodies of water in an area.
- 2-ESS2-3. Obtain information to identify where water is found on Earth and that it can be solid or liquid.

## EXPLORIUM WAY

### Social Studies

- 2.C.RR.1: Describe the importance of civic participation.
- 2.C.RR.2: Compare the rights and responsibilities of citizens in North America.
- 2.E.KE.1: Provide examples of each of the factors of production in Kentucky.

### Visual & Performing Arts

- MU:Pr6.1.2: Perform music for a specific purpose with expression and technical accuracy.
- TH:Cr1.1.2: Collaborate with peers to conceptualize scenery in a guided drama experience.

### Career Studies

- F.P.7: Investigate different ways to save money (e.g., piggy bank, local bank, credit union).

## HEALTHY ME

### Health Education

- 2.1.2. Explain what it means to be healthy and how healthy eating and sleeping patterns help the body grow and develop.

### Physical Education

- 2.3.N1. Describe the balance between nutrition and physical activity.
- 2.5.H1. Identify physical activities that contribute to a healthy lifestyle.

## BUBBLE ZONE

### Physical Education

- 2.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.

## ● PHYSICS AND SPACE

### Physical Education

- 2.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.
- 2.2.SD1. Vary time and force with gradual increases and decreases.

### Science

- 2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

## ● MARKSBURY ENGINEERING

### Mathematics

- KY.2.MD.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks and measuring tapes.
- KY.2.MD.3 Estimate lengths using units of inches, feet, yards, centimeters and meters.

### Physical Education

- 2.1.MS1. Demonstrate manipulative skills with a variety of objects using appropriate performance cues.

### Science

- 2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- 2-PS1-2. Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.
- K-2-ETS1-1. Ask questions, make observations, and gather information about a situation that people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
- K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

## ● SMALL WORLD & BONE ZONE

### Science

- 2-PS1-1. Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- 2-PS1-3. Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.
- 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

## ● AROUND KENTUCKY GALLERY

### Social Studies

- 3.H.KH.1: Explain how world events impact Kentucky, both in the past and today.

## ● EXPLORIUM WAY

### Social Studies

- 3.C.CP.1: Explain the basic purposes and functions of differing governing bodies in the world.
- 3.C.RR.1: Examine how the government maintains order, keeps people safe, and makes and enforces rules and laws in diverse world communities.
- 3.E.MI.2: Describe the relationship between supply and demand.

### Visual & Performing Arts

- MU:Pr6.1.3: Perform music with expression and technical accuracy.
- TH:Cr1.1.3: Create roles, imagined worlds, and improvised stories in a drama/theatre work.

### Career Studies

- F.P.7: Investigate different ways to save money (e.g., piggy bank, local bank, credit union).

## ● HEALTHY ME

### Health Education

- 3.7.1. Describe the importance of developing positive health habits.
- 3.7.3. Explain positive health behaviors related to personal wellness, physical activity and safety.

## ● PHYSICS AND SPACE

### Physical Education

- Demonstrate manipulative skills using a variety of objects with a partner by demonstrating appropriate performance cues.

### Science

- 3-PS2-2. Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

## ● BUBBLE ZONE

### Physical Education

- 1.4: Performs fine motor movements and tasks using eye-hand coordination.

## ● MARKSBURY ENGINEERING

### Mathematics

- KY.3.MD.3 Investigate questions involving categorical data.

### Physical Education

- Demonstrate manipulative skills using a variety of objects with a partner by demonstrating appropriate performance cues.

### Science

- 3-PS2-1. Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.
- 3-PS2-2. Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.
- 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

## ● SMALL WORLD & BONE ZONE

### Science

- 3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.
- 3-LS2-1. Construct an argument that some animals form groups that help members survive.
- 3-LS3-1. Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.
- 3-LS3-2. Use evidence to support the explanation that traits can be influenced by the environment.

## ● HOMES AROUND THE WORLD

### Social Studies

- 3.G.HE.1: Explain how the culture of places and regions influence how people modify and adapt to their environment.
- 3.G.GR.1: Explain how physical and cultural characteristics of world regions affect people, using a variety of maps, photos and other geographic representations.

### Science

- 3-ESS2-2. Obtain and combine information to describe climates in different regions of the world.



## ● AROUND KENTUCKY GALLERY

### Social Studies

- 4.E.KE.1 Predict how producers in colonial Kentucky used the factors of production to make goods, deliver services and earn profits.

## ● EXPLORIUM WAY

### Social Studies

- 4.C.PR.1 Describe the processes people use to change rules and laws.
- 4.C.KGO.1 Explain how the development of rules improves communities and attempts to meet the needs of citizens.

### Visual & Performing Arts

- MU:Cr2.1.4: Demonstrate selected and organized musical ideas for an improvisation, arrangement, or composition to express intent.
- MU:Pr6.1.4: Perform music, alone or with others, with expression and technical accuracy, and appropriate interpretation.
- TH: Cr2.1.4: Collaborate to devise original ideas for a drama/theatre work by asking questions about characters and plots.

### Career Studies

- FL.I.10: Compare different payment methods.

## ● HEALTHY ME

### Health Education

- 4.1.2. Explain the importance of eating a variety of foods from all the food groups and describe the benefits of healthy eating habits.

### Science

- 4-LS1-2. Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.

## ● BUBBLE ZONE

### Physical Education

- 4.1.MS1. Apply manipulative skills with a partner, using a variety of objects, while demonstrating appropriate performance cues.
- 4.2.SD1. Apply speed, endurance and force in activities and game-like situations.

### Science

- 4-PS4-2. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.

## ● PHYSICS AND SPACE

### Physical Education

- 4.1.BM2. Transfer weight to different body parts at varying speeds, with and without equipment.
- 4.1.MS1. Apply manipulative skills with a partner, using a variety of objects, while demonstrating appropriate performance cues.

### Science

- 4-PS3-1. Use evidence to construct an explanation relating the speed of an object to the energy of that object.
- 4-PS4-2. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.

## ● MARKSBURY ENGINEERING

### Physical Education

- 4.1.MS1. Apply manipulative skills with a partner, using a variety of objects, while demonstrating appropriate performance cues.

### Science

- 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

## ● SMALL WORLD & BONE ZONE

### Science

- 4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
- 4-LS4-1. Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.
- 4-ESS1-1. Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.

## ● HOMES AROUND THE WORLD

### Social Studies

- 4.G.GR.1 Analyze how location and regional landforms affect human settlement, movement and use of various national resources, using maps, photos and other geographic representations.

## ● AROUND KENTUCKY GALLERY

### Social Studies

- 5.E.KE.1 Analyze how incentives and opportunity costs impact decision making, using examples from Kentucky history.
- 5.G.GR.1 Use a variety of maps, satellite images and other models to explain the relationships between the location of places and regions and their human and environmental characteristics.

### Mathematics

- KY.5.MD.1 Convert among different size measurement units (mass, weight, liquid volume, length, time) within one system of units (metric system, U.S. standard system and time).

## ● EXPLORIUM WAY

### Social Studies

- 5.C.KGO.1 Explain the roles and responsibilities of a Kentucky citizen.

### Visual & Performing Arts

- MU:Pr6.1.5: Perform music, alone or with others, with expression, technical accuracy, and appropriate interpretation.
- TH:Cr2.1.5: Devise original ideas for a drama/theatre work that reflects collective inquiry about characters and their given circumstances.

### Career Studies

- FL.I.10: Compare different payment methods.

## ● HEALTHY ME

### Physical Education

- 5.3.N1. Analyze the impact of food choices relative to physical activity, sports and personal health.

## ● PHYSICS AND SPACE

### Physical Education

- 5.1.MS1. Apply manipulative skills in game-like situations using various objects.

### Science

- 5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.

## ● MARKSBURY ENGINEERING

Science

- 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

## ● SMALL WORLD & BONE ZONE

Science

- 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.
- 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

## ● HOMES AROUND THE WORLD

Social Studies

- 5.G.HE.1 Explain how cultural and environmental changes impact population distribution and influence how people modify and adapt to their environments.

## ● BUBBLE ZONE

Physical Education

- 1.4: Performs fine motor movements and tasks using eye-hand coordination.