

# **BCPS Field Trip Request ID # 9613**

Trip Request By

Trip Name

Trip Date

Approx. Pick-up Time

Return Date

Approx. Return Time

Class/Group

Student Count

Chaperone Count

Number of Vans/Buses

Common Carrier

Cost to Students

How will you pay for students who cannot afford the fee?

We will pay for students who cannot afford the fee with fall festival money raised by kindergarten teachers.

## **Place of Departure**

Name:

Address:

City:

State: KY

## **Destination**

Name:

Address:

City:

State: KY

## **Lesson Plans**

### **Discovering Art and Science in Nature (Bernheim Forest field trip class we have chosen)**

Experience *Earth Measure*, our massive sculpture that merges art and science! Students will explore sights and sounds of the piece, take a walk to compare other artwork, and use natural materials to construct their own sculpture. Key concepts include structure and design, and engineering practice.

## Science and Engineering Practices

### Asking Questions and Defining Problems

Asking questions and defining problems in K&#2 builds on prior experiences and progresses to simple descriptive questions.

- Ask questions based on observations to find more information about the natural and/or designed world(s). (K-2-ETS1-1)
- Define a simple problem that can be solved through the development of a new or improved object or tool. (K-2-ETS1-1)

### Developing and Using Models

Modeling in K&#2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions.

- Develop a simple model based on evidence to represent a proposed object or tool. (K-2-ETS1-2)

## Crosscutting Concepts

### Structure and Function

- The shape and stability of structures of natural and designed objects are related to their function(s). (K-2-ETS1-2)

**K-PS3-2. Use tools and materials provided to design and build a structure that will reduce the warming effect of sunlight on Earth&#177;s surface.\*** [Clarification Statement: Examples of structures could include umbrellas, canopies, and tents that minimize the warming effect of the sun.]

Students will create their own structure using natural and recyclable materials during their art and science in nature time. They will create a structure to make shade from the sun. The students will use their I Spy Trail walk to look at nature and manmade shade areas and use that information for their own structures or to compare their structures to. They will use the engineering design process by asking questions and identifying the need, research will be done on the trail walk and has been done in the classroom also, imagine so they can develop possible solutions, plan by selecting which solution they think will work best, create or build their plan, test or evaluate their finished model and lastly they will improve their created model. This will allow students to use the engineering design process in a real life situation while using natural and recyclable materials which also shows them how to reuse items that might have just been thrown away or use natural resources that nature has to offer at Berheim.

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