Light and Shadows: An Engineering Adventure

A Museum of Science Traveling Program
Description

Light and Shadows: An Engineering Adventure is a 40-minute hands-on workshop specifically designed for preschool children.
Needs

We bring all materials and equipment.
Space Requirements
The program can be set up in any indoor room with at least 15’ x 20’ of clear floor space. If desired, each session can be taught in a different room.
Goals: Making Shadows

The program is structured around a shadow puppet play featuring a trip to an imaginary zoo.
Goals: Making Shadows

The play introduces the concepts of shadows using frequent interaction, kinesthetics, and play.
Goals: Making Shadows

The children then explore on their own, learning how the size and shape of shadows depends on the position of objects and a light source.
Goals: Engineering

The second half of the program uses the play to establish an engineering problem: The lions have no shade from the hot sun.
Goals: Engineering

The children use blocks to engineer a structure to provide shade for a pride of plastic lions.
Goals: Engineering

They can test how much shade their structures create, and try to improve the design.
Program Details

• Only available for summer programming, for preschool classes or camp groups.
• Not currently available for libraries.
• Appropriate for children ages 2.9 – 5 years.
Program Details

• Capacity is 20 children per session.
• Groups must include one participating adult for every ten children.
• Up to four consecutive sessions can be taught per day.
### 2019 – 2020 Prices

<table>
<thead>
<tr>
<th>Sessions per Day</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>1 Session</td>
<td>$330</td>
</tr>
<tr>
<td>2 Sessions</td>
<td>$380</td>
</tr>
<tr>
<td>3 Sessions</td>
<td>$430</td>
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<tr>
<td>4 Sessions</td>
<td>$480</td>
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No mileage fees charged in New England in July/August 2019.
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For information/reservations:
mos.org/travelingprograms
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