Rockets: There and Back Again

A Museum of Science Traveling Program
Rockets: There and Back Again is a 50-minute hands-on workshop in which participants engineer, launch, and return vehicles for an imaginary space journey.
Needs

We bring all materials and equipment. Access to 110-volt electricity is required.
Space Requirements

The program can be set up in any indoor room with at least 20’ by 25’ of cleared floor space.
Launch Activity

In the first activity, participants use latex balloons of different shapes to make short-range rockets.
Launch Activity

The objective is to launch the rocket along a nylon track and reach an astronomical target 8’ – 12’ above the ground.
Re-Entry Activity

In the second activity, the participants make re-entry capsules using foam discs, plastic lids, and other materials of varying weights.
Re-Entry Activity

The objective is to hover the capsule in a stream of air passing through a clear tube, modeling the drag a spacecraft encounters upon re-entry.
Redesign

Both activities challenge participants to think creatively, tap into their own ingenuity, and build upon experience to reach a goal.
Redesign

Just like real rocket engineers, participants learn from the performance of their first designs and attempt to improve upon them.
Program Details

• Only available for summer programming.

• Can be booked for:
  – Libraries
  – Camp/Youth groups
  – Some special events

• Appropriate for family or group audiences ages 5 – adult.
Program Details

• Capacity is 25 children per session.
• Groups must include one participating adult for every five 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>
</tr>
<tr>
<td>4 Sessions</td>
<td>$480</td>
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No mileage fees charged in New England in July/August 2019.
Rockets: There and Back Again

For information/reservations:
mos.org/travelingprograms
travelingprograms@mos.org
617-589-0354

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