Middle School Girls STEAM Camp

**Purpose:** Glacier National Park and Glacier Institute are conducting a camp for middle school girls this summer focused on science, technology, engineering, art, and math (STEAM) in relation to landscape changes occurring in Glacier National Park. The four-day, overnight camp will be held in and around Glacier National Park and is geared for grades 6–8. Twelve students will be selected. We are looking for a diverse pool of applicants from communities adjacent to Glacier and across Montana. *We will accept applications from other states, but priority will be given to Montana residents.*

The camp consists of: (1) attending a four-day science and field-based camp that provides an outstanding opportunity for participants to learn about melting glaciers and other landscape changes in Glacier National Park; (2) using art, in the form of photography, to document landscape changes; (3) learning sustainability principles. (4) meeting women in STEM fields during a Women in Science Career Fair. [Click here to apply.]

**Time:** The workshop will be held June 22-25, 2020. *Note: Workshop begins on Monday at 8:30 a.m. and ends at 4:00 p.m. on Thursday, June 25.*

**Location:** Glacier Institute Big Creek Discovery School, located 22 miles north of Columbia Falls along the North Fork River of the Flathead River, and other locations in and around the park.

**Physical Requirements:** Participants must be physically able to do hikes of up to 4 miles in length and 1,000 feet elevation gain/loss.

**Deposit:** Selected participants must submit a $25 deposit to secure a spot in the camp. The deposit will be fully refunded upon completion of the camp.

**Expenses:** Thanks to funding from the [Glacier National Park Conservancy](https://www.glacierconservancy.org), shared bunkhouses, meals, and transportation during the camp will be provided for participants. Students are responsible for travel expenses to and from Big Creek Discovery School.

**Questions:** For more information, contact Dawn Glynn at register@glacierinstitute.org or 406-755-1211.

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**2020 Draft Agenda**

**Monday, June 22**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity/Activity/Activities</th>
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<tbody>
<tr>
<td>8:30 – 9:00</td>
<td>Arrive &amp; move in</td>
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<tr>
<td>9:00 – 10:00</td>
<td>Setting the Stage – Introductions, orientation, and ice breaker</td>
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<tr>
<td>10:00 – 10:15</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:15 – 11:00</td>
<td>Climate Science 101</td>
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<td>11:00 – 12:00</td>
<td>Activity – “Melting Glaciers: Evaluating Change”</td>
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<td>12:00 – 12:30</td>
<td><strong>Lunch at Big Creek</strong></td>
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<tr>
<td>12:30 – 1:15</td>
<td>Explanation of week-long assignment: &quot;Photovoice: Seeing Landscape Changes in Northwest Montana”</td>
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<td>1:15 – 1:30</td>
<td><strong>Break/Prepare for hike</strong></td>
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<tr>
<td>1:30 – 5:30</td>
<td>Hike – “So the Glacier’s are Melting. Why does it Matter?”</td>
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<td>5:30 – 6:00</td>
<td><strong>Break</strong></td>
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<tr>
<td>6:00 – 7:00</td>
<td><strong>Dinner at Field Camp</strong></td>
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<tr>
<td><strong>Evening Time</strong></td>
<td><strong>Team Building</strong></td>
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**Tuesday, June 23**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity/Activity/Activities</th>
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<tbody>
<tr>
<td>7:00 – 8:00</td>
<td><strong>Breakfast</strong></td>
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8:00 – 9:00  Activity – “Intro to Sustainability: Spaceship Earth”
9:00 – 9:15  Break
9:15 – 9:45  Review & Reflect – Review of “Melting Glaciers” lesson; reflect on the value of different ways of knowing
9:45 – 10:30 Activity – Repeat photo lesson and practice
10:30 – 10:45 Break/Prepare for hike
10:45 – 5:00 Hike – “Documenting Landscape Changes with Repeat Photography”
   Bag Lunch in Field
5:00 – 6:00 Break
6:00 – 7:00 Dinner at Field Camp
Evening Time  Night Hike

Wednesday, June 24

7:00 – 8:00  Breakfast
8:00 – 9:00 Activity – “Envision a Sustainable Neighborhood”
9:00 – 9:15 Break
9:15 – 9:45 Review & Reflect – How is Glacier’s Hydrology Changing? Why Monitor Streams?
9:45 – 12:00 Activity – Stream Monitoring & Survey123 App
12:00 – 1:00 Lunch at Big Creek
1:00 – 2:00 Presentation – Stream Monitoring Wrap-up & “Keeping Glacier’s Fisheries Sustainable” presentation
2:00 – 2:15 Break
2:15 – 5:00 Hike – “Forest & Fire Nature Trail Hike”
5:00 – 6:00 Break
Evening Time Campfire/marshmallow roast

Thursday, June 25

7:00 – 8:00  Breakfast
8:00 – 8:30 Travel to Field Camp
8:30 – 10:15 Review & Reflect – Work on PhotoVoice assignment with partner
10:15 – 10:30 Break/snack
10:30 – 11:10 Presentation – Women in Science Career Fair (speaker group 1)
11:10 – 11:40 Activity – Science Career Fair Scavenger Hunt
11:40 – 12:20 Presentation – Women in Science Career Fair (speaker group 2)
12:20 – 12:45 Bag Lunch at Field Camp
12:45 – 1:15 Travel to Big Creek
1:15 – 2:30 Team Building Hike & Wrap-up
2:30 – 3:00 Break/prepare for presentations
3:00 – 4:00 Photovoice Presentations
4:00 Camp ends!