Field Trip Chaperone Guide
Changing Landscapes

**BEFORE YOU START**

You don’t have to be a science expert!
The goal of this guide is to support you in deepening students’ experiences. We’ve provided some questions you can ask to focus their explorations. Remember to have fun and enjoy your visit!

What is the value of this guide?
The topic, exhibits, and questions in this guide were designed to enrich your students’ learning. There is a lot to think about as a chaperone, and this guide will walk you through an experience chosen by your teacher.

Where are the exhibits?
Look at the labeled map on the back to find the exhibits you will visit. We often move exhibits around. If you need help finding an exhibit, just ask an orange-vested Explainer.

Make it your own!
Try to make this experience unique for yourself and your group by sharing related stories or asking your own open-ended questions. Feel free to visit the listed exhibits at any time during your field trip and in any order.
**LET'S GET STARTED!**
Read these instructions out loud to your group of students.

I will guide you to three exhibits related to how wind and water change land.

At each of the exhibits we will explore, investigate, and share.

**Step 1: Explore the exhibit**
First, we will play with the exhibit. We can use all of our senses to make observations and compare different parts of the exhibit.

[Tips for Facilitation: Model making observations and asking open-ended questions. Encourage taking turns.]

**Step 2: Investigate questions**
While at the exhibits, I will read some questions and things to try. We can also come up with our own questions.

[Tips for Facilitation: Repeat or rephrase questions to help guide the students. It's OK if students don't get to an answer.]

**Step 3: Share ideas**
Finally, we will step away from the exhibit and discuss ideas about what’s going on. Don’t worry, this is not about getting the “right answer.” It’s about sharing ideas.

[Tips for Facilitation: Stand or sit in a small circle and give each student a chance to share. Add your own thoughts on the exhibit or different discussion questions.]

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<tr>
<td><strong>Aeolian Landscape</strong></td>
<td><strong>Settling Column</strong></td>
<td><strong>Bay Sediment Cores</strong></td>
<td><strong>MAKE A CLOSER LOOK:</strong> Look around the exhibit to see the fan that is blowing the sand. Does the direction of the fan change how the sand moves? <strong>BUILDING UP:</strong> Try leaving the fan pointing in one direction. Which mountains of sand seem to be growing?</td>
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<td><strong>Make a CLOSER LOOK:</strong> As you move the column around, watch closely for patterns. Do you see any repeating shapes? <strong>PATIENCE:</strong> Try to let all the sand settle at the bottom. What do you notice? Can you balance the column in the vertical direction?</td>
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<td><strong>MAKE A CLOSER LOOK:</strong> Do you notice different colors, textures, or objects in different parts of the mud? <strong>BACK IN TIME:</strong> Find a place where there is a change in the mud. Can you guess what year that change happened?</td>
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<td><strong>WARM-UP QUESTION:</strong> Was there anything about this exhibit that surprised you? <strong>EVERYDAY CONNECTIONS:</strong> Does this exhibit remind you of anything you have seen before?</td>
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<td><strong>WARM-UP QUESTION:</strong> What did you find interesting at this exhibit? <strong>SETTLING DOWN:</strong> What did you notice about how sand moves with water? Can you imagine something similar happening at the bottom of the Bay?</td>
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<td><strong>WARM-UP QUESTION:</strong> What was most memorable about this exhibit? <strong>EVERYDAY CONNECTIONS:</strong> Storms and currents can add or remove sediment from the bottom of the Bay. Can you think of a time when you saw waves kicking up sand at the beach?</td>
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