Turning the Tide

Procedure

1. **Collaborate** Work with a partner. Record your observations in the chart below.

<table>
<thead>
<tr>
<th>Difference</th>
<th>Photograph 1</th>
<th>Photograph 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Cause</th>
</tr>
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<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Effects</th>
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<tbody>
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<td></td>
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</tbody>
</table>

2. **Use Models** Study the two photographs on page D63 of your book. In the chart, jot down as many specific differences between the photographs as you can.

3. **Use Models** With your partner, discuss the following questions. Record your answers in your chart.
   - What differences do you see in these two photographs of the same stretch of beach at different times?
   - What do you think is the cause of these changes?
   - What effects do you think these changes could have on the beach and on organisms that live there?
Conclusion

Write the answers to the questions below.

1. **Communicate**  Write a paragraph explaining the process that is occurring on the beach.

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

2. **Hypothesize**  What are likely to be the effects of these changes on the beach?

   ____________________________________________________________

   ____________________________________________________________

3. **Hypothesize**  What types of organisms can live in this changing environment?

   ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________

**Investigate More!**

**Design an Experiment**  How could you test the hypotheses you made about how the changes will affect the beach and what types of organisms could live there?