<table>
<thead>
<tr>
<th>Lesson Title</th>
<th>Lesson 1 - River Anatomy</th>
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<tbody>
<tr>
<td>Time</td>
<td>1 - 50 min class period</td>
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| Resources         | ● River Anatomy Notes PowerPoint  
                    ● Access to Google Earth |
| Objective         | SWBAT identify and describe the parts of a river. |
| Standard          | HS-ESS2-5. Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes. |
| Lesson Plan       | **Introduction (5 min)**  
                    ● Show students introduction slide in PowerPoint.  
                    ● Read through the scenario as a group or have students read through the scenario on their own and determine their answer and reasoning.  
                    ● Discuss answers as a group. *(Correct Answer: Dustin is correct, the river will erode on Side A and deposit sediment on Side B over time.)*  

**Notes (20 min)**  
● Present the River Anatomy Notes.  
● Have students take their own notes or create guided notes for students to complete.  
● Revisit introduction slide and do a quick check for understanding to ensure that students understand how erosion and deposition occurs in a river.  

**Activity (20 min)**  
● Students will choose a river to apply their new vocabulary to – this could be a local river, a small stream they are familiar with, or a major river such as the Mississippi River, the Nile River, or the Amazon River.  
● Students will use Google Earth to find examples of the following vocabulary words on the river they chose - **headwaters, mouth, meander, cutbank, point bar, oxbow lake, erosion, and deposition**  
● Students will save images of their examples on their device and label them with the vocabulary words.  
● Note: It can be difficult to find the headwaters of many rivers as they are in wooded areas.  

**Closing (5 min)**  
● Students will share their river and the examples they labeled with a partner or group.  

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