

Warm Up

Make a prediction for each question below, share your predications, and then fill in the table below.

	Answer
WHERE are zebra mussels native?	
WHERE are quagga mussels native?	
How did the invasive mussels get to the U.S.?	

Mapping Activity Part I

1. What year were zebra mussels discovered in the U.S.? _____
2. **Make a Prediction**...Where do you think the invasive mussels spread to first?
3. What year were quagga mussels discovered in the U.S.? _____
4. **Where** did they actually spread to initially?



5. The mussels quickly spread by traveling _____ from their points of origin or by _____ a ride on or in a man-made object.
6. What year did the invasive mussels cross the continental divide? _____



7. **30-second brainstorm**...List the ways in which invasive mussels can move and spread to new areas?



8. **How** are the states in the northwest trying to prevent the spread of invasive mussels?
9. Is it working? Why or why not?



10. **List** the states the invasive mussels have **NOT** spread to since their initial introduction.
11. What do you think are some **invasion barriers** that could cause a mussel invasion to fail?



Mapping Activity Part II

Examine the provided maps with your group members and then answer the questions using complete sentences.

Flathead Watershed Map:

Imagine the invasive mussels have made it to the Flathead River Basin in Montana.

1. Select a point of introduction on the Flathead Watershed map: _____
2. Describe **where the mussels would disperse/spread** from that location below.

3. Explain (using SPECIFIC details from the map) how the **aquatic environment** of the Flathead Watershed could be impacted by a mussel invasion.

4. Think of a **personal connection**...how could a zebra or quagga mussel invasion impact someone you know or a particular profession in the region?

Columbia River Basin Map:

How could the Columbia River Basin be **economically impacted** by a mussel invasion?

5. Select a topic below. Use SPECIFIC details from the map to explain how these Columbia River Basin businesses could be impacted by a mussel invasion.

<input type="checkbox"/> Hydroelectric Dams	<input type="checkbox"/> Restaurants	<input type="checkbox"/> Recreation (ex. fishing, rafting, swimming, sailing, boating, camping, etc.)
<input type="checkbox"/> Farming/Irrigation	<input type="checkbox"/> Tourism	
<input type="checkbox"/> Real Estate		

Wrap Up

6. We live near headwaters of the Columbia River Basin. Why should we care about a potential mussel invasion?

