



# Third Grade Independent Learning Project Winter 2024

Student Name: \_\_\_\_\_

## Rivers

Rivers are important to our country. People use rivers to transport goods, for fishing, and fun activities. Rivers are also important for drinking water and farming.

**Your Task:** Locate six rivers on the map on the “Rivers” sheet on page 2.



Water from rivers and winds can cause erosion of soil and weathering to rocks over time. Changes in rocks and soil can be easily observed.

A local landscaping employee heard that you have been studying rocks and soil. The company needs your help! The landscaping company has been hired to help stop or slow changes to a client's yard.

The client has noticed changes to the soil and rocks on their property. A few photos have been emailed to the company.

**Your Task:** View the photos below. Write a sentence for each photo to explain how the changes may have occurred. Write a solution to help the client fix their problems. Good Luck!

### Photos emailed from the client:



**Backyard Stream**



**Front Driveway**



**Side Yard**

**Answer the following questions:** How do you think the changes occurred? What evidence do you have to support your explanation? Write a possible solution to share with the client.

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# Rivers



Match each river's location with a number on the map.

### Word Bank

Ohio River  
Mississippi River  
Rio Grande River  
Hudson River  
St. Lawrence River  
Colorado River

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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**Math Warm-Up**

**Rounding to the nearest 10 and 100** allows us to approximate the size of a number.

Trash was found in two different rivers. When each number was rounded to the nearest hundred, the approximate amount of trash found at each river was 600 pounds. Which of these **amounts** could have been found at the two rivers? **Hint:** There are two correct answers.

- A. 518 pounds
- B. 551 pounds
- C. 634 pounds
- D. 682 pounds

About 150 Newton County third graders planted trees on Arbor Day as a conservation project. Which of these could be the number of third graders who planted trees?

- A. 133
- B. 146
- C. 156
- D. 167

Citizens of Newton County picked up 857 pounds of trash over the weekend. Kimberly said that was about 800 pounds and Karson said 900 pounds. Which person's estimate is correct? Explain why the other person's estimate is incorrect. Use pictures/models, numbers, and words to justify your reasoning.

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## Rounding with Recycling Matching Game

Cut the cards apart and match them with the correct answer.

 <p>Round 26 to the nearest ten</p>	 <p>Round 54 to the nearest ten</p>	 <p>Round 73 to the nearest ten</p>	 <p>Rounding 17 to the nearest ten</p>
 <p>Round 138 to the nearest hundred</p>	 <p>Round 138 to the nearest ten</p>	 <p>Round 456 to the nearest hundred</p>	 <p>Round 456 to the nearest ten</p>
 <p>Round 793 to the nearest ten.</p>	 <p>Round 793 to the nearest hundred.</p>	 <p>Round 351 to the nearest ten.</p>	 <p>Round 351 to the nearest hundred.</p>
 <p>100</p>	 <p>60</p>	 <p>500</p>	 <p>460</p>
 <p>30</p>	 <p>140</p>	 <p>70</p>	 <p>20</p>
 <p>800</p>	 <p>790</p>	 <p>350</p>	 <p>400</p>

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**Optional Open Middle Math Challenge with Family**

Can you and your family members find more than one solution to solve this problem?

**MULTIPLY AND DIVIDE WITHIN A HUNDRED 2**

Directions: Using the digits **2 to 9** at most one time each, place a digit in each box to make a correct equations where the value is as close to 38 as possible.

$$\square \times \square = \square\square \div \square$$

Hint



What digits would be better worse to divide by? What are the greatest values you can make on the division side?