

## **MATH ACTIVITY: YOUR WATER USE**

***Preparation:*** Give students an advance notice to bring a copy of a water bill from their house. Send a note home to the parents to send a water bill with any personal information blacked out.

Students will use their water bill to match the rates given on the BR Water Company website. Next, students will determine how much water their household uses a day. First, they will convert their bill to gallons. Then, they will determine their household and individual usage. Students will compare their water use to the Baton Rouge average. The average Baton Rouge household of 4 uses 337 gallons a day (84.25 gallons per person per day).

To conclude, students will go back and compare their actual use to the guess they made in the anticipatory set. Teacher should draw a line at the average on the graph they used during the anticipatory set. Then, the students will graph their actual water use on the line. This will allow for a visual of their guess and actual water use as respect to the average and to one another.

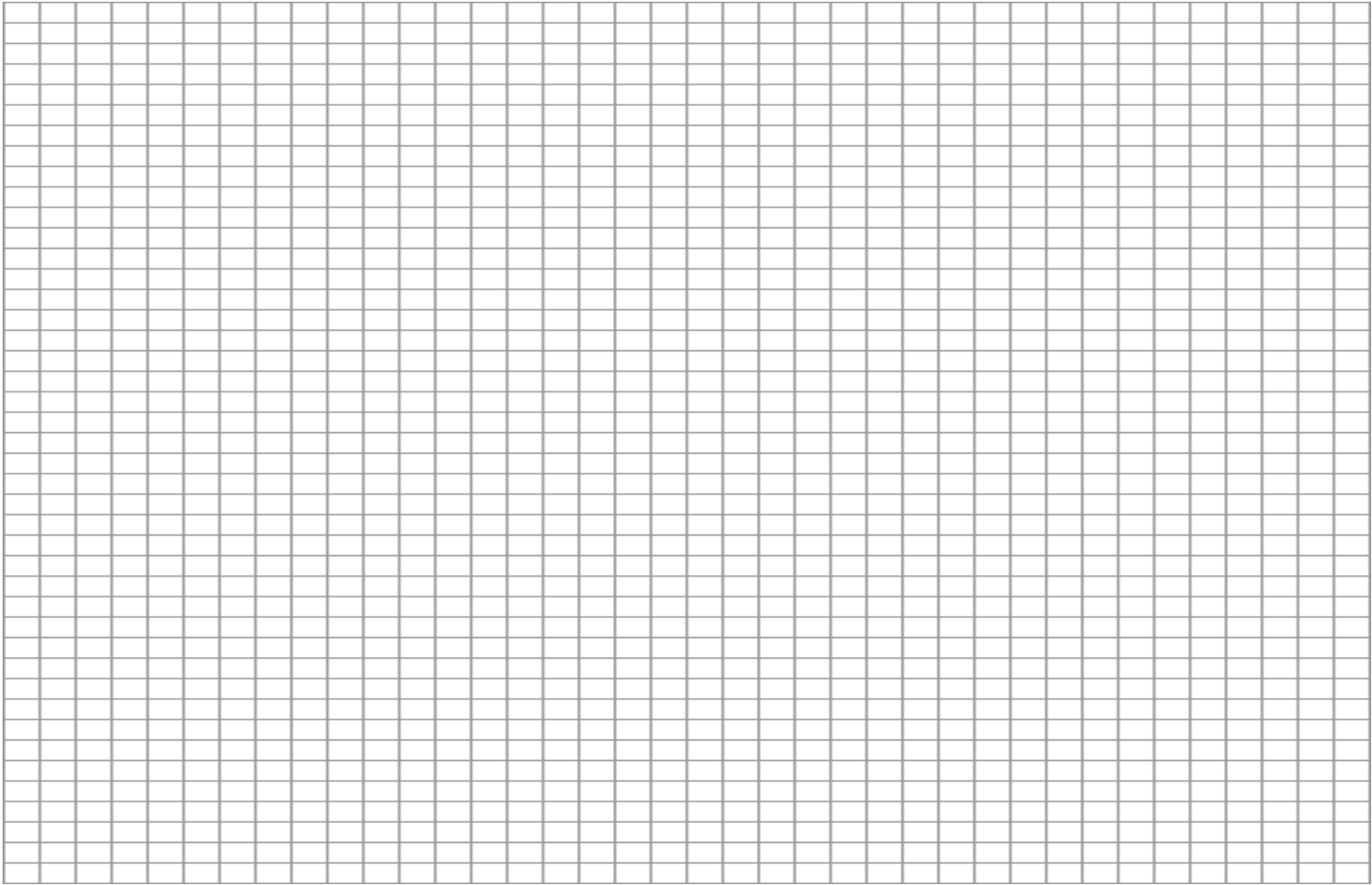
## **Math Activity: Your Water Use Student Sheet**

**Instruction: Use your water bill from home to answer the following questions.**

1. How much water did your household use last month?
2. Calculate the cost using the rate schedule and compare it to your bill.
3. How much water did your household use in a day?
4. How much water did each member of your household use in a day?
5. Convert your answer from cubic feet to gallons.
6. How did your actual use compare to the average in EBR? The average person uses 84.25 gallons per person per day.
7. How close was your guess from early in the lesson to the actual answer?
8. How much does a gallon of water cost, according to your bill? Why might this differ from other student's bill from the same water company?

How Much Water Do You Use?

Gallons of water per day



Student's Names