

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

# WATER FOOTPRINTS

In “The Future of Meat?” (p. 26), you learned that raising livestock for meat requires more resources, like water, than making meat alternatives. The amount of fresh water needed to produce a specific food is called its *water footprint*. Look at the data in the “Water Footprint of Foods” table. Use it to calculate the water footprint of several meals in the table on the right. Answer the questions that follow on a separate piece of paper.

**Water Footprint of Foods**

Food	Water Used Per Serving (gallons)
Apple	10
Beef hot dog	325
Chicken	175
Fruit salad	25
Hamburger	625
Impossible Burger (plant-based alternative meat)	3
Juice	47
Lab-grown meat (chicken, beef, pork)	20
Potato chips	10
Side salad with dressing	15

**Water Footprint of Meals**

Meal	Your Calculations	The Meal's Total Water Footprint
<b>A:</b> Hamburger, potato chips, fruit salad, juice		
<b>B:</b> Impossible Burger, potato chips, fruit salad, juice		
<b>C:</b> beef hot dog, 2 apples, side salad with dressing		
<b>D:</b> serving of lab-grown meat, potato chips, side salad with dressing, fruit salad		

## QUESTIONS

- Which two foods have the highest water footprint?
- Which two foods have the lowest water footprint?
- Which meal has the largest water footprint? How could it be reduced?
- Design a meal you'd like to eat using the foods in the chart. Then plan a similar meal that uses less water. What is the difference in water use between the two meals? Show your calculations.

**TAKE IT FURTHER:** Create a bar graph on a separate sheet of paper comparing the water footprint of the four meals in the table. Be sure to title your graph and label your x-axis and y-axis.