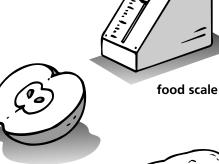


Finding Water in Our Food





half of an orange



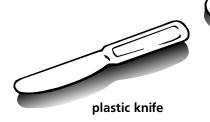
half of an apple

paper plates



· · · · ·

half of a potato



one slice of bread

Time

Find Out

contain.

Do this activity to see how much water foods

Process Skills

Measuring

Observing

Predicting

Using Numbers Interpreting Data

Communicating Experimenting

- 40 minutes the first day
- 20 minutes every other day for three weeks

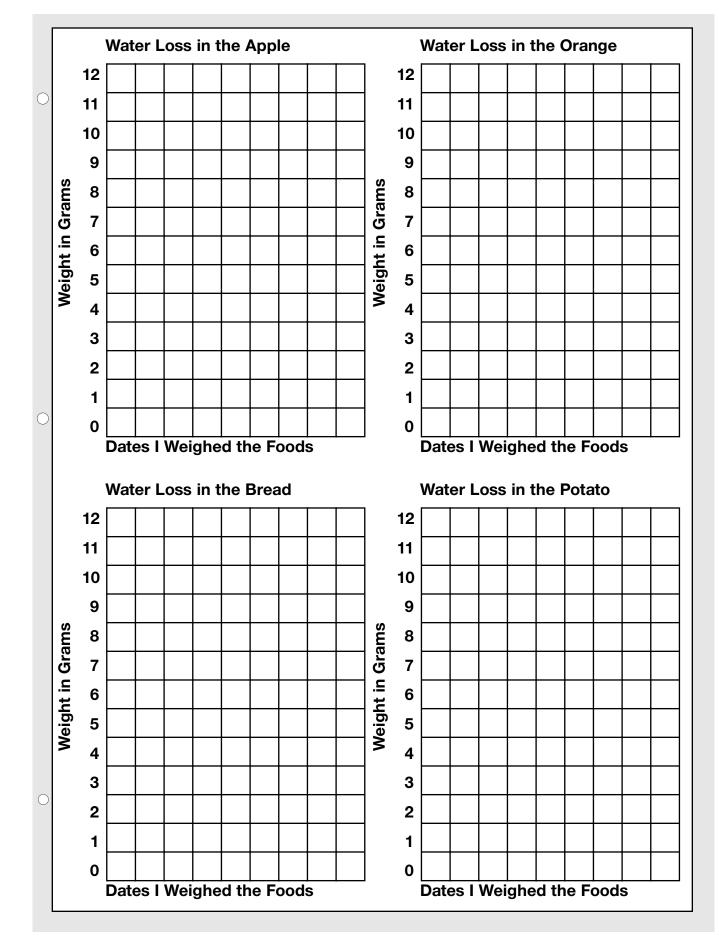


one crayon, any color UNIT D • Chapter 3: Nutrition



- WHAT TO DO
 - 1. Estimate and then weigh the apple half.
 - 2. Record the apple half's weight on the graph. Under the first row of squares, below the line numbered "0" write today's date. Color the squares above that date until they show the weight of the apple on this date.
 - **3.** Repeat Steps 1 and 2 for the other foods.
- **4. Predict** which food sample has the highest percentage of water. Write your prediction.
- **5.** Carefully cut or have your teacher cut the foods into approximately 2-cm squares. Place each food on four separate paper plates. Leave them for two or three days.
- 6. Every other day **weigh** your foods, including all the pieces, but not the plate. **Record** the date and **color** the graph to show your findings.
- 7. Observe the graphs over the three weeks. Compare the weights over the time periods.





Conclusions

- 1. Compare the graphs. Remember it doesn't matter how high or low the bar on the graph went. It is more important to notice the difference between the beginning bar and the ending bar. Did the food lose $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, or more of its original weight? Which food lost the most water?
- 2. Which food lost the least water?

New Questions

1. What types of food do you think would have more water than the foods in this investigation? What types of food might have less water?

2. How do you think animals in the desert get most of their water?



Lesson 1 • Carbohydrates, Fats, and Proteins

Name _____



Finding Fats and Starch in Foods

Rub each food on a square of brown paper bag.

Predict which foods will have fat. Write Yes or No in the chart.

Predict which foods will have starch. Write **Yes** or **No** in the chart.

Put a drop of iodine on each food. **Record** your observations.

Name of Food	Will Food Have Fat?	Will Food Have Starch?	Does Food Have Fat?	Does Food Have Starch?

Lesson 1 • Carbohydrates, Fats, and Proteins

Name ____

Conclusions

Which foods were high in fat? How can you tell?



2) Which foods were high in starch?



Compare your predictions with your observations.

Asking New Questions

How else could you find out if a food has fat or starch in it?



2) Why should you know how much fat is in a food?

Lesson 2 • Water, Vitamins, and Minerals

Name _____



Reading a Food Label

Record your food label data in the table below. **Record** which vitamins and minerals the food contains. **Record** how much fat and carbohydrates the food contains.

Label	Vitamins	Minerals	Grams of Fat	Grams of Carbohydrates
1				
2				

Compare your two foods. Is one higher in iron or certain vitamins? Which has a higher protein content?

Lesson 2 • Water, Vitamins, and Minerals

Name _____

Conclusions

(1) How are the food labels similar?



2) What is different about the food labels?



Why is it important to read food labels?

Asking New Questions

(1) If you have a food allergy, why can food labels be important?

