

California Math & YOU: Environmental Connections

California Math & YOU brings math to life by embedding environmental awareness into every chapter. Aligned with California’s Environmental Principles and Concepts (EP&Cs), the program encourages students to build meaningful connections between mathematics and the natural world while fostering critical thinking, inquiry, and problem-solving skills to address real-world challenges. *California Math & YOU* embeds these principles through two key features:

EP&C Integration: EP&Cs are incorporated into every chapter, with clear labeling and accompanying teacher notes to emphasize these connections.

Environmental Principle 2



- “Many vineyards plant cover crops, which are plants that prevent weed growth, soil erosion, and water evaporating from the soil.”

? “How does using a cover crop help the environment?” *Sample answers:* Chemical weed killers do not need to be used; Less water needs to be used.

6. **Preserve Farm Land** The diagram shows a vineyard in Napa, California. It takes 2 days to harvest one square mile. How many days does it take to harvest the entire vineyard?

40 days

□ = 1 square mile

Environmental Connections: Found throughout the Teaching Edition, these notes offer ideas for classroom discussions designed to inspire critical thinking about environmental topics.

Connect to Real Life

Example Which year had the greatest attendance?

Plot the numbers on a number line.

Year	Attendance
Year 1	300,457
Year 2	340,628
Year 3	322,812

322,812 340,628 300,457

► 340,628 is the number farthest to the right, so Year 2 had the greatest attendance.

In-Class Practice

8. Which year had the best attendance? Year 3

Environmental Connections

- “California is one of the top strawberry-producing states in the United States. California produces many other crops including almonds, nectarines, lemons, and olives. Some farmers rotate their crops each season.”

? “What are some benefits of crop rotation?” *Sample answers:* improves soil health, reduces the need for fertilizers

? “What are some disadvantages of crop rotation?” *Sample answers:* Not all crops can grow in the same soil conditions and climate; Some crops require special equipment and knowledge.

By integrating environmental themes, *California Math & YOU* helps students see the power of mathematics in understanding and addressing the world around them.



Learn more!
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