1) alifornians love their berries. Strawberries grow especially well in our state because of the **temperate** climate from the coast. Here is a story of the many strategies people use to take extra care to grow scrumptious

strawberries

Breeding

healthy strawberry plants by making them are planted. Scientists look for ways to make Growing strawberries starts even before they more **resistant** to pests and diseases.



Growing

are covered in colored or clear plastic to help sure each plant gets just the right amount of which makes them easier to harvest. The beds retain moisture, keep berries from the dirt, and maintain the shape of the bed for the long season. Drip irrigation is used to make Strawberries grow in rows of raised beds, water



MS-LS1-1, 2, 5-PS1-1, 4 Sources: California Strawberry Commission, www.californiastrawberries.com; National Human Genome Research Institute, www.genome.gov | Institute, www.genome.gov | California Poundation for Agriculture in the Classroom. All Rights CA Standards: ELA CC: RI.3-6.7, RI.3-5.8, SL.3-8.1; NGSS

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Planting

grown at high-elevation nurseries in Northern California. Once strong and healthy, they are Virtually all strawberry plants in California shipped to farms across the state, where they start as runners trimmed from mother plants, are planted by hand.



Harvesting

Strawberry harvesting teams work hard to trays that are quickly transported to shipping All strawberries are picked by hand. pick each berry and pack it inside a clamshell container. The containers are placed inside facilities where they are cooled.



Selling and Shipping

world. 88% of the berries grown in the United Within 24 hours of being picked, the berries transported across the country and the States come from California. Berries are are loaded into refrigerated trucks and sold as fresh or frozen, or they are used as ingredients in other products.



Bayer CropScience, Plant Pathologist, Cecilia Wilson,

West Sacramento, CA

What do you do in your job? I run tests on plants to see how I can help them fight against pests and disease. What training did you need for your job? I needed a bachelor's degree and lab experience. Much of my training was on the job.

What is an interesting thing that you've learned in your job? I've learned that plants can be plagued by multiple diseases at the same time.

Anything else you'd like to add? Everything looks so different at the microscopic level! I love that being a scientist can help farmers grow food to feed the world

True/False

- 1. Strawberries have lots of Vitamin C. T/F
- 2. Strawberries each have about 50 seeds. T/F 3. California produces about 88% of our country's strawberries. T/F
- 4. Strawberries grow on trees. T/F
- 5. The country of Belgium has a strawberry museum. T/F

Class Connection

Go to a grocery store produce section. Check strawberry labels or ask where the strawberries were grown. Mark the location on a map. Compare locations with other students' findings

STEM Activity: Strawberry DNA

strawberry DNA. This experiment can be done in class, for a science Using common household items, you can separate and observe fair, or even just for fun! Go to the website:

www.genome.gov/Pages/Education/Modules/ StrawberryExtractioninstructions.pdf Or visit Learn About Ag. org for another version in Extra! Extra! Classroom Extensions. Answers: 1. True 2. False, strawberries have 200 seeds. 3. True, 4. False, strawberries grow on plants in fields. 5. True