4-H BICYCLING PROJECT

Bicycling has been a part of American culture since the early 1800s. As early as 1900, bicycle riders were petitioning their local governments for safer routes of transportation alongside streetcars and horse-drawn buggies. Since the first bicycles were invented, humans have continued to innovate and improve on their design—even today. In this project, youth partners with adult leaders to learn about bicycling as a hobby, a way to get more physical activity, or for transportation. Youth may learn
- how to ride safely in their community
- the components and parts of a bicycle
- how to maintain bikes to keep them riding smoothly

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- Learn about bikes! Identify the different parts of a bike, basic bike tools, and bike vocabulary.
- Learn to fix a flat tire and change out a flat tire.
- Find a biking map of your city or neighborhood. Identify where there are separated bike paths and protected bike lanes.
- Get your helmet, a friend, and explore a new route on your bike.
- Learn how bicycle gears and brakes work and how to maintain them.
- Learn about the classifications of bikeways including class I, II, and III.
- Learn the bike laws in your city, including your rights and responsibilities on the road.
- Using a map, plan a longer bike route (more than 5 miles) using a mix of class I–III bikeways.
- Visit a bike repair shop or a “bike kitchen.”
- Set a goal to replace one of your weekly car trips with a bicycle trip (e.g., bike to school).
- Make notes of problem areas on your bike trip. Where does the bike lane end abruptly? Where does it feel unsafe? Present your findings to a transportation board.
- Start a “safe routes to school” program at your school. Ask your principal if you already have one and how you can help.

The activities above are ideas to inspire further project development. This is not a complete list.

4-H THRIVE

Help Youth:

- **Light Their Spark**
  A spark is something youth are passionate about; it really fires them up and gives them joy and energy. Help youth find how this project excites them.

- **Flex Their Brain**
  The brain grows stronger when we try new things and master new skills. Encourage youth effort and persistence to help them reach higher levels of success.

- **Reach Their Goals**
  Help youth use the GPS system to achieve their goals.
  - **Goal Selection:** Choose one meaningful, realistic, and demanding goal.
  - **Pursue Strategies:** Create a step-by-step plan to make daily choices that support your goal.
  - **Shift Gears:** Change strategies if you’re having difficulties reaching your goal. Seek help from others. What are youth going to do when things get in their way?

**Reflect**
Ask project members how they can use their passion for this project to be more confident, competent, and caring. Discuss ways they can use their skills to make a contribution in the community, improve their character, or establish connections.
Expand Your Experiences!

Science, Technology, Engineering, and Mathematics
- Dig in deeper with bike repair and maintenance! Take apart a bike and put it back together.
- Compare and contrast the different carbon footprints of a bike, an e-bike, a car, and a truck.
- Collect data on the number of students that ride bikes, walk, and drive cars to school.

Healthy Living
- Learn about healthy snacks that can keep you fueled for bike riding.
- Spend time being physically active while getting somewhere or just riding for fun.
- Connect with your community by riding a bike and slowing down to explore.

Civic Engagement
- Learn about the role of the circulation element of the general plan in bike infrastructure.
- Work with community groups to identify places where better bike lanes are needed.
- Speak up at a city council meeting about why safe spaces for biking are important to you.

Leadership
- Plan a community "bicycle train" to encourage more families to bike to school.
- Volunteer at a local bike education agency to educate others about biking safely.
- Lead a “fix a flat” workshop for other youth or adults in your community.

College and Career Readiness
- Interview a bike shop owner in your community.
- Sign up for an internship with a city planner through your local city planning department.
- Visit a college campus to learn more about their city and regional planning programs.

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**Connections & Events**

**Curriculum**
- Bikeology: A middle and high school curriculum
- University of Miami Bike Safety Curriculum for ages 10–14
  [http://ibikesafe.org/](http://ibikesafe.org/)
- Frameworks: Guide to youth development and bicycle repair
  [bikeworks.org/about/resources/](http://bikeworks.org/about/resources/)
- 4-H Bicycle Curriculum
  [https://shop4-h.org/](https://shop4-h.org/)

**4-H Record Books**
- 4-H Record Books give members an opportunity to record events and reflect on their experiences. For each project, members document their experiences, learning, and development.
- 4-H Record Books also teach members record management skills and encourage them to set goals and develop a plan to meet those goals.

To access the 4-H Record Book online, visit [http://ucanr.edu/orb/](http://ucanr.edu/orb/)

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University of California
Agriculture and Natural Resources
Communication Services
2801 Second Street
Davis, CA 95618
Telephone 1-800-994-8849
E-mail: anrcatalog@ucanr.edu

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California 4-H Project Sheet Technical Editors
NICOLE MARSHALL-WHEELER, 4-H Youth Development Advisor, UC Cooperative Extension, Colusa, Sutter, and Yuba Counties; and STEVEN WORKER, 4-H Youth Development Advisor, UC Cooperative Extension, Marin, Napa, and Sonoma Counties.

California 4-H Project Sheet Series Authors
VERA M. BULLARD, 4-H Program Representative, UC Cooperative Extension, Amador and El Dorado Counties; JENNA COLBURN, 4-H Program Representative, California State 4-H Office; ANNE IACCOPUCCI, 4-H Healthy Living Academic Coordinator, California State 4-H Office; ALLISON KEANEY, CEO, Sonoma-Marin Fairgrounds; SHANNON KLISCH, UC CalFresh Community Education Supervisor, UC Cooperative Extension, San Luis Obispo County; NICOLE MARSHALL-WHEELER, 4-H Youth Development Advisor, UC Cooperative Extension, Colusa, Sutter, and Yuba Counties; FE MONCLOA, 4-H Youth Development Advisor, UC Cooperative Extension, Santa Clara County; KATHERINE E. SOULE, Youth, Families, and Communities Advisor and Director of UC Cooperative Extension, San Luis Obispo and Santa Barbara Counties; MAURA SPARREVOHN, 4-H Youth Member, Sacramento County; and STEVEN WORKER, 4-H Youth Development Advisor, UC Cooperative Extension, Marin, Napa, and Sonoma Counties.