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 partner 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

### Starting Out

**Beginner**

- 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.

### Learning More

**Intermediate**

- 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.”

### Exploring Depth

**Advanced**

- 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.
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**

- **Presentation Days** – Share what you’ve learned with others through a presentation.
- **Field Days** – 4-H members may participate in a variety of contests related to their project area.
- Contact your UC Cooperative Extension office to determine additional opportunities available, such as a field day.

**Curriculum**

- Frameworks: Guide to youth development and bicycle repair [bikewoks.org/about/resources/](http://bikewoks.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.

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**Resources**

- California Bike Coalition [http://www.calbike.org/bicycling_in_california_sharing_the_road](http://www.calbike.org/bicycling_in_california_sharing_the_road)
- Biking Skills 123 Youth [https://www.bikeleague.org/content/find-take-class](https://www.bikeleague.org/content/find-take-class)
- Stolen Bike Registry [https://bikeindex.org/stolen](https://bikeindex.org/stolen)

The UC 4-H Youth Development Program does not endorse, warrant, or otherwise take responsibility for the contents of unofficial sites.