The 4-H computer project provides hands-on experiences in understanding, programming and building computers.

- Identify computer components and operating systems.
- Exhibit knowledge of building, maintaining and repairing computers.
- Demonstrate a basic understanding of networking.
- Work with peers, adults and community partners to develop service-related computer goals.

Here’s what you can do all year!

### Starting Out
- Assemble computer and software tool kits.
- Deconstruct and reconstruct a computer.
- Understand how computers use numbers.
- Troubleshoot PC hardware problems.
- Explore operating systems.
- Explore open-source resources.
- Install operating systems.
- Decide to upgrade or replace an old computer.
- Design a dream machine.

### Learning More
- Identify network hardware.
- Design a computer network.
- Find an Internet protocol address.
- Understand different types of servers.
- Use different protocols to communicate.
- Identify computers on a local area network.
- Add peripherals to a network.
- Secure a networked computer.
- Share applications simultaneously.

### Expanding Horizons
- Share the ways you use a computer with an adult.
- Understand technology needs in your community.
- Organize a team to identify and set goals for community technology needs.
- Contact community partners for your goals.
- Develop an activity plan.
- Use “Newbie Know-How” to teach a class on computers.

### Communication
- Demonstrate how to install a program or repair a computer.
- Create a display about different types of computers.

### Citizenship
- Volunteer to help maintain computers at your local community center or library.
- Help other youth, senior citizens or others interested in learning about computers.
- Offer to teach a class on computer care at your local community center or library.

### Leadership
- Teach younger 4-H members in your club about computers.
- Plan a trip to a computer business for your 4-H club.
- Plan a computer recycling day in your community

### Entrepreneurship
- Start a computer repair service.
- Job shadow a computer programmer or business owner.

Pass it on! Now that you know how, share it with others. Here are ideas to get you started.

Learn more at [www.ndsu.edu/4h](http://www.ndsu.edu/4h) or contact your county NDSU Extension office.
Here are other opportunities to explore computers:

- Sign up for classes provided by your school or community education programs.
- Tour a local computer business (retail store, repair store, manufacturing company, etc.)
- Compete in your local communication arts contest with a speech or demonstration about computers.
- Create a display for the project expo competition about computers.
- Interested in a career in computers? Schedule a visit with North Dakota State University to explore Computer Science, http://cs.ndsu.nodak.edu/.

### 4-H Resources

- National 4-H Computer Curriculum
- Level 1—Inside the Box
- Level 2—Peer to Peer
- Level 3—Teens Teaching Tech
- Newbie Know-How
- National 4-H Online Curriculum Information
- 4-H Computer Mysteries

### Other Resources

- What is a Computer?
- CPU Online Activity
- Street Tech Toolkit
- TechSoup.org
- Computer User High Tech Dictionary
- Computer History Museum Center
- Smithsonian National Museum of American History

### Recordkeeping

- 4-H Project Plan
- Planning for My Project Adventure (Ages 8-10)
- 4-H Plan of Action (Ages 11-18)
- ND 4-H Participation Summary for 11- to 19-year-olds

Learn more at www.ndsu.edu/4h or contact your county NDSU Extension office.