



4-H Earth Sciences Project



Step It Up!

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

Citizenship/ Leadership

- Explore careers in science related fields: geologists, astronomers, climatologists
- Attend clean-ups and work days at local refuges and parks
- Head up a recycle event
- Set up a compost area for your club

Communication

- Give an Illustrated Talk, Demonstration or Speech about water conservation, habitat loss, air pollution, or food systems
- Give a workshop at your club or county level
- Create a video or news release

Healthy Living

- Research what kinds of food we gather from the oceans and their nutritional value
- Learn about the various types of sunscreen and use it everyday
- Investigate common water pollutants

Science

- Grow crystals and perform other experiments
- Visit a geological museum, university, or aquarium
- Investigate climate change around the world
- Participate in Citizen Science opportunities
- Take a Jr. Master Gardener class

Are You Into It?

Earth Science projects are open to youth between 5 and 18 years of age.

Earth Sciences are any sciences related to the planet Earth. They are grouped into four basic areas of study. These are geology, meteorology, oceanography and astronomy. Projects in these areas strive to:

- Instill an appreciation of natural resources and phenomenon;
- Inspire youth to adopt conservation practices in an effort to sustain natural resources;
- Demonstrate increased knowledge of ecological systems;
- Make connections between human behaviors and the environment; and
- Investigate the earth and space around us.

Here's what you can do all year!

Starting Out Basic	Learning More Intermediate	Expanding Horizons Advanced
<ul style="list-style-type: none"> • Start a rock and mineral collection • Put a rain gauge in your yard to measure rainfall • Recycle items at home • Discover commodities and resources the oceans provide us • Participate in the Forest Ecology, Marine Ecology or Land Judging programs • Make a terrarium or construct a water scrubber • Take a nature hike to discover ecosystems and food chains 	<ul style="list-style-type: none"> • Study new forms of energy being developed for human consumption • Research about recycling methods and new uses for recycled materials • Explore what careers are available in the fields of earth science • Practice and teach about conservation practices • Examine new ways that we are exploring space and the oceans • Learn about the earth's geologic history 	<ul style="list-style-type: none"> • Take the Jr. Florida Friendly Landscaping class and then teach others about responsible yard management • Examine how weather impacts human lives • Investigate how the Earth's population growth impacts the environment • Consider ways the population can live with the threats posed by volcanoes, tornadoes and earthquakes



Expand Your Experiences in Earth Sciences

- Contact your County Extension Office to participate: <http://sfyl.ifas.ufl.edu/map/index.shtml>.
- Enroll at <https://florida.4honline.com>.
- Participate in 4-H Land Judging <http://landjudging.org/about.shtml>.
- Invite speakers to present at a club meeting, such as Geologists, Meteorologists, and Oceanographers.
- Apply to be a Junior Camp Counselor (Counselor in Training) at a Florida 4-H Camping Center when you are 14-17 years old: <http://florida4h.org/camps/>.
- Apply to be a summer staff member at a Florida 4-H Camping Center after you graduate from high school: <http://florida4h.org/getinvolved/>.
- Attend Florida 4-H University and participate in workshops, listen to motivational speakers, and participate in a community service project: <http://florida4h.org/programsandevents/>.
- Interested in a college education in the area? Schedule a visit to the University of Florida and learn more: <http://www.ufl.edu/admissions/>.

Project Sharing Ideas

- Give an Illustrated Talk, Speech or Demonstration at County Events or to a local organization – the earth Sciences division includes presentations related to the interdependence of air, earth, soil and water
- Create a poster or enter photos in County Events that focuses on an aspect of your Earth Science project
- Create a game board, worksheet, or puzzle to use with youth and share the results
- Enter an exhibit in your local fair to showcase Earth Sciences

Resources

4-H Project Resources

Project materials to assist youth in learning may be available through your county 4-H office:

- Earth Connections
- Water Wise Guys
- Soil, Water and Land Use

or you can order the following directly from National 4-H

www.4-hmall.org:

- Entomology
- Project Butterfly Wings
- Amphibians
- Photography
- Gardening
- Forest Ecology
- Outdoor Adventures
- GPS and GIS
- Sport-fishing
- Exploring Your Environment
- Backyards and Beyond

Connections and Events

Attending events and taking advantage of opportunities that will expand your project learning will help you become the best you can be.

Attend local 4-H opportunities

Become a camp counselor for your local and state 4-H camp <http://florida4h.org/camps/>.

Attend other statewide events. Check them all out at www.florida4h.org.

Record Keeping

Learning to take good records of what you do and what you spend for your project is a 4-H life skill.

The following record keeping forms can help you keep track of your activities.

Project Report Forms can be found at <http://florida4h.org>

- Junior (ages 8-10)
- Intermediate (ages 11-13)
- Senior (ages 14-18)
- Financial Summary
- Building My 4-H Portfolio (ages 8-13)

Awards and Recognition

Certificates, pins, ribbons, trophies, trips and/or scholarships are awarded based on quality of performance at the county, district, state and national levels.

To learn more about current recognition opportunities visit the Florida 4-H website at <http://florida4h.org> or contact your County 4-H Extension Agent.

Learn more at florida4h.org

or contact your local UF/IFAS Extension County Office

4-H
GROWING TOGETHER