



Science & The Environment

Virtual Activities Guide

Relevant Projects

- **Let's Landscape**
- **Let's Get Growing**
- **Gardening**
- **Protecting Planet Earth**
- **Eye on Energy**
- **Adventures in STEM**
- **Building Block: Engineering**



Digital Resources

Environmental Activities at Home

<https://www.neefusa.org/education/environmental-education-home>

Climate Restoration Mini Course for Youth

<https://bit.ly/336ubg1>

Carbon Footprint Calculator

<https://bit.ly/2ScrFm1>

Plant Snap - App that Identifies Plants

<https://www.plantsnap.com>

Lets Talk Science - STEM Resources

<https://bit.ly/2RbOhTt>

Try Engineering - Interactive Games & Resources

<https://tryengineering.org>

Achievement Day Idea

Virtual Science Fair

Have members prepare and present an experiment, tutorial or idea based on your project focus. Members can present this in any medium they wish, poster, slideshow, video etc. You may even want to align your virtual science fair with 4-H Canada's competition so members can enter their project at the national level. Below is a link to how 4-H Canada runs their competition:

<https://4-h-canada.ca/sciencefair>

Speaker Ideas

- Engineer
- Environmental Technician
- Horticulturalist
- Meteorologist
- Researcher
- Alternative Energy Professional
- Flower Farmer or Florist

Activity #1 Container Gardening

Have members create container gardens at home. Get creative on what recycled materials found around the house that can be a vessel for a mini garden. Talk about locations in the home that are best to set up their container gardens and what plants may be best to grow indoors. Below are seven container gardens to start at home:

<https://www.thespruce.com/container-garden-projects-kids-will-love-847955>

Activity #2 Environmental Jeopardy

There is a lot of new terminology and information in these projects. Try turning the content into a jeopardy game. Below are some ideas for categories. You can use www.jepordylabs.com to create your own interactive jeopardy game or click the link below for a premade game about the environment.

<https://jepordylabs.com/play/environmental-jeopardy-96>

Categories Ideas

- Species of Plants or Trees
 - Weather
 - Energy Types
 - Climate Change
 - Garden & Plant Care
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Activity #3 At Home Builder Challenge

This activity will challenge members to be resourceful and to learn on what they have learned in the project so far. Challenge members to create one of the structures listed below with things they find at home. It could be with recycled items, toys or Lego, or blankets and furniture for example.

- Build a bridge that holds weight
 - Build a tower taller than you
 - Build a tower to hold a stuffed animal
 - Build a zip line
 - Build a chain reaction
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Activity #4 Energy Conservation Brainstorm

Divide members into small groups and have them collaborate to brainstorm as many ideas as they can to conserve or reduce energy. Then have each group share their ideas and make a cumulative list of everyone's ideas. We recommend doing this on a shared screen so youth can also see the running list. Then challenge youth to put their ideas into practice and check back at your next meeting to see how many ideas of the list were completed.

Here are some ideas to get you started: <https://www.momentumenergy.com.au/blog/energy-saving-tips>

For More Resources Like this: www.4-hontario.ca