



Overview of Program Goals and Objectives

Worsley Central School is committed to creating a sustainable agriculture program that will provide students with the knowledge and skills to become responsible stewards of the environment, independent adults, and potentially choose a career in an agriculture-related field. The concept of "sustainable" is two-fold in this context: students will learn about sustainable farming techniques and the program itself will eventually become self-sustaining.

The program goals and objectives provide a framework for the school to achieve this goal.

Project Timeline

April 2022

Design and begin
building a
greenhouse.

May 2022

Cultivate and plant a

qarden.

September 2022
Harvest garden.

Re-plant garden and grow plants in greenhouse. Build and prepare livestock pens including

May - June 2023

Re-plant garden and promotion grow plants in greenhouse. Build and prepare livestock pens including are fencing and shelters.

Launch the livestock component of this program - including allowing students to care for livestock, garden/greenhouse, and prepare products for resale

April 2023
Design and build livestock shelter(s).

September 2023
Set up career
presentations and
learning
opportunities to
support agriculture
program including
livestock care
component.



Livestock Component

Livestock plays an important role in the sustainability of Worsley Central School's agriculture program. The school's livestock component includes a variety of animals, such as ducks, sheep, goats, cows, and donkeys. This component will grow and change to meet the needs and interests of the students. Students will start with a smaller animal such as goats and once routines and responsibilities have been established then larger animals such as cattle can be introduced. A donkey (or 2!) may be introduced for the purpose of protecting the livestock from predators. Consideration will be given to other animals depending on availability and student interest. Animals will be "fostered" out during the summer months or extended breaks.



Garden and Greenhouse

At Worsley Central School, students have the opportunity to learn about sustainable agriculture through the school's garden and greenhouse. The garden and greenhouse provide a hands-on learning experience for students to explore the principles of sustainable agriculture. During the "off-season" students will explore indoor gardening techniques using hydroponics and grow-tower technologies. These lessons will be integrated into the science curriculum as appropriate as well as within the CTF and CTS courses for grades 7+.

Preparing and Packaging Products for Resale

Packaging products for resale is an important part of creating a sustainable agriculture program for Worsley Central School.

To ensure the products are safe and secure, careful preparation and packaging is essential. Students will learn about regulations from Alberta Health Services for resale of produce or prepared products such as canned goods or cheese made in a "home kitchen." Students will explore ways to prepare produce grown or products that can be created from the garden, greenhouse or livestock. Examples of this may include making and selling pickles or cheese. The bulk of these learning opportunities will be a part of the CTF and CTS course offerings at Worsley Central School. Worsley Central School will continue to supply the school's hot lunch program with potatoes, potentially expanding those offerings to include onions and other produce.



Team Responsibilities & Career Explorations

STUDENTS WILL LEARN FROM A VARIETY OF TRADES PERSONS, PROFESSIONALS AND EXPERTS IN THEIR FIELD. THEY WILL HELP GUIDE THE PROGRAM AND PROVIDE STUDENTS WITH INFORMATION ABOUT POTENTIAL CAREER OPPORTUNITIES. WORSLEY CENTRAL SCHOOL WILL BE ACTIVELY SEEKING OUT GUIDANCE AND ASSISTANCE FROM COMMUNITY MEMBERS WHO CAN WORK WITH THE STUDENTS.



Teacher Student



Farmer



Vet Tech

Chef

Program Objectives and Goals





Give K-12 students
 practical experience in
 the care, nutrition, and
 management of animals,
 while encouraging
 healthy eating habits
 and appreciation for
 locally sourced and
 sustainable food
 production.



- Encourage the students
 to develop
 responsibility,
 leadership, and
 teamwork. Strengthen the
 sense of community by
 involving parents, local
 businesses, and other
 stakeholders in the
 planning and upkeep of
 the garden and
 qreenhouse.
- career and business opportunities related to agriculture and trades, with a focus on providing opportunities for entrepreneurship and business skills.

 Examples include selling produce, creating a school-based farmers market, or exploring new methods of sustainable farming and production.
- Teachers will incorporate STEM education into our curriculum by teaching students about plant biology, horticulture, hydroponics, and data analysis. We will also provide students with opportunities to engage in engineering and design processes, as they create shelter blueprints and construction plans for livestock.

The advantages of this program are far-reaching and varied. It includes both academic and extracurricular elements.

Potential Benefits and Challenges



Increased Student Engagement
Providing students with active and
practical learning experiences can
heighten their involvement and
enthusiasm.



Educational Opportunities

Students will have the chance to gain knowledge of sustainable farming methods, as well as acquire life skills and explore career prospects.



Financial Challenges

The program may necessitate additional funding to be successful, especially in its early stages. This program is designed to become financially independent over time.

Creating a sustainable agriculture program for Worsley Central School has the potential to bring many benefits, but also presents some financial challenges.

#teamwork #communitysupport #ittakesavillage

How Can You Help?

Donations of Time & Talent will be Appreciated!





Time & Talent assistance filling out
grant applications for
additional funding to
get us started.



Seeds donations including onions,
potatoes, carrot,
turnip, beet or
cucumber seeds



Straw, hay, feed, mulch, topsoil, potting soil etc.



Assistance with
transportation
considerations for vet
care or securing
breeding stock may be
needed



Gently used greenhouse materials such as seedling kits or egg cartons



Time & Talentcultivation of garden, assistance moving materials and shelters, fencing



Time & Talent - summer garden weeders & helpers appreciated



Gently used fencing panels by donation or reduced cost



Time & Talent - experts in livestock, greenhouse, gardening & construction are always helpful



Time & Talent - summer & extended break families willing to "foster" livestock when school is not in session

The future of our community depends on our ability to create an engaging agriculture program for our children's future.

Engagement is not just a word, it is an action. Collaboration is the key to making it happen.

PLANT BREEDING AND GENETICS BIOT CHN CHOOLSORGANIC **F**GREENH JIOTECHNOLOGY AGRICULTURAL I NIMAL BREEDING AND GENETICS HORT PRECISION AGRICULTURE TECHNOLOGIES MACHINERY AND EQUIPMENT F-HARVEST TECHNOLOGY BIOENERGY PRODUCTION TECHNOLOGIES

https://www.agricultureforlife.ca/grant-stream-1

Potential Grant for an Employee who could "manage" the "farm"

https://www.agricultureforlife.ca/ files/ugd/31c071 e0065abeeaf54118be5f3190fb75b501.pdf

Curriculum Connections for Junior High

https://www.journey2050.com/

Sustainable Agriculture course for Junior High

https://www.agricultureforlife.ca/mission-to-mars

Farm Safety Escape Room (Digital)

https://agriculture.canada.ca/en/department/initiatives/sustainable-canadian-agricultural-partnership

Canadian Government Sustainable Agriculture Partnership Program

https://www.ruraldevelopment.ca/initiatives/agri-food

Farm Ed Toolkit

https://agriculture.canada.ca/en/programs/agridiversity

Federal Agriculture Diversity Grant

https://www.albertagoats.com/youth

Alberta Goats Association

