



  
**sustainable**

# Youth Challenge

## Teacher & Student Package

Providing tools to educators that empower students to make innovative improvements to agriculture and food production.

**Ag** *for* **Life**

# SUSTAINABLE DEVELOPMENT GOALS

In September 2015, Canada and 192 other United Nations (UN) member states adopted the 2030 Agenda for Sustainable Development to guide the social, economic, and environmental actions the world needs to undertake to achieve a sustainable future by the year 2030.

As the prime connection between people and the planet, sustainable agriculture and food production have great potential to address many of our challenges and achieve our goals.

# sustainable

## The Challenge

Working in teams of up to four, students are invited to submit a project proposal that relates to the annual challenge question.

Students will collaborate to research their topic, engage in problem-solving processes, and draft a proposal detailing one solution. The challenge provides students with opportunities to engage in integrative, inquiry-based learning, as well as the tools and strategies to problem-solve and innovate real solutions.



## Student benefits

### Students will:

- Engage in meaningful, project-based learning with real-world connections to curricular outcomes in STEM, Social Studies, ELA, and Global Competencies
- Build understanding of the SDGs and connect as global citizens
- Conduct collaborative guided inquiry to identify and analyze critical agriculture sustainability issues in their local communities
- Apply new learning to innovate sustainability solutions through creative, collaborative problem-solving

## Teacher benefits

- Professional development opportunities with direct, on-going support from a dedicated Ag for Life "Sustainable" program coordinator
- Delivered as a flexible lesson framework centered upon the "Sustainable" challenge question, with additional lessons and resources to build essential background knowledge, guide student inquiry, and support collaborative problem-solving
- Teacher Kit: Access to dedicated "Sustainable" website, challenge outline and updates, lessons, multi-media resources/links, blackline masters and student journals, supporting documents, case studies
- Curated multi-media resources and materials to support SDG education, inquiry, and design processes

# Opportunities for school and student leadership

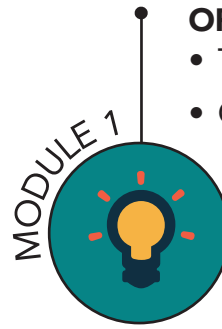
## Flexible Program Framework

The program consists of a five module, flexible lesson framework, centered around the essential challenge question:

"How do we sustainably feed a hungry world while reducing food waste and food insecurity?"

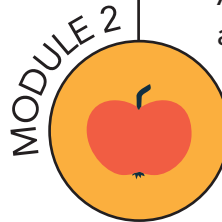


Teachers, students, schools and administrators spearheading the challenge will identify as "Sustainable" leaders and change-makers within Alberta and beyond. Outstanding students and projects will be showcased in a variety of public forum events by Ag for Life and partners, and will be eligible for significant cash awards and public recognition for their work. Upon pan-Canadian expansion, winning teams will have the once-in-a-lifetime opportunity to present their proposals to the UN!



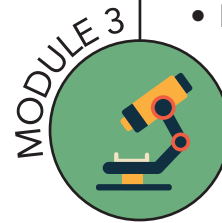
### OPEN/IMMERSE

- The scope and purpose of the SDGs
- Connecting as global citizens



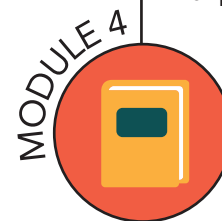
### IMMERSE/EXPLORE

- Agriculture as the uniting thread of the SDGs
- Ag systems, successes, challenges and opportunities for innovation



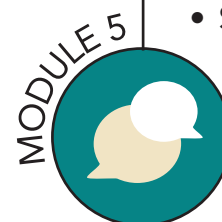
### EXPLORE/GATHER DATA

- Guided inquiry to address the essential question
- Data collection for innovation



### CREATE/SHARE/EVALUATE

- Collaborative problem-solving/design
- Development of solution proposal



### COMMUNICATE

- Prepare and deliver group proposal in a creative, engaging format
- Showcase student work



## Prepare to be inspired!

Youth play an enormous role in helping to guide and achieve the social, economic, and environmental actions the world needs to undertake to achieve a sustainable future by the year 2030.

Thanks to the rise of social media and the role of youth in setting cultural trends, young people have already emerged as true leaders of the new global movement for sustainable development.

To the left are examples of Youth Solutions prepared by the global youth initiative of the Sustainable Development Solutions Network. These are key examples to harness youth-led innovation for the implementation of the 17 Sustainable Development Goals.

## Now it's your turn!

Explore, create, share, evaluate and communicate your strategies and solutions to become a "Sustainable" leader!

# AgforLife

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**Empowering Displaced Women  
through Mushroom Cultivation**  
(Hope for a Better Future Cooperative)

**The Project:**  
H4BF teaches displaced female household heads in organic mushroom cultivation. It is not only an alternative source of income, but also a food source with high nutritional value. Seeds, equipment hands-on training & basic agribusiness/project management skills are provided to kick-start these women's own mushroom production business.

### SDG Alignment:



## School Farms

(Reach out to Future Leaders Movement)

**The Project:**  
Provides students with access to nutritious food using the School Farm model system. It aims to teach community schools to grow organic food, processed to become daily meals for students. Students also gain agricultural skills for future work through the School Farms Club, which offers training & mentoring.

### SDG Alignment:



## Pamodzi (Out-Grow It)

**The Project:**  
Pamodzi, ("Stronger Together"), offers positive social & economic impacts to rural African communities by producing honey for export. The model is economically viable, & sustainable, utilizing thousands of low-cost, high-production beehives (Zam-Hives®). This creates scalable, income-generating opportunities, lifting thousands out of poverty, & lowering deforestation in the area.

### SDG Alignment:

