

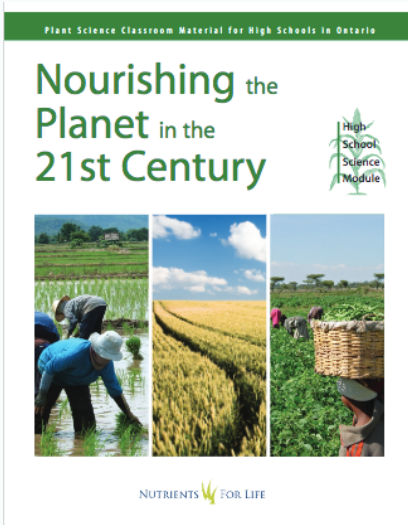
# RESOURCES AVAILABLE

Nutrients for Life Foundation Canada is a registered charitable organization committed to bringing educational materials to the classroom focusing on soil science and agricultural sustainability.



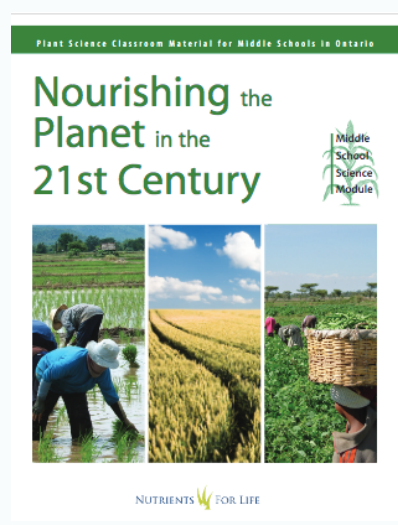
To receive complementary items featured, please visit our website:  
[www.nutrientsforlife.ca/resources](http://www.nutrientsforlife.ca/resources)

## LESSONS

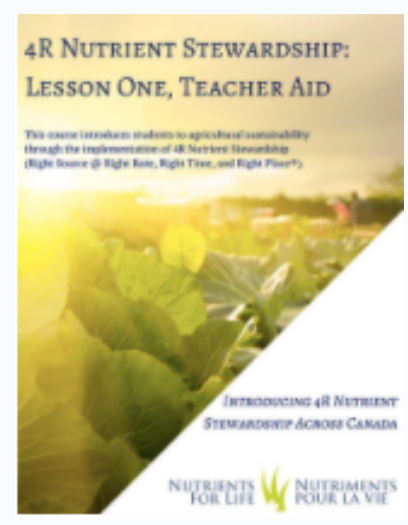


### HIGH SCHOOL

A classroom resource on soil science and agricultural sustainability. This resource targets middle- and high-school students in Canada with engaging learning materials on the important role plant nutrients play in global food security and the creation and maintenance of green spaces. Also available in French



### MIDDLE SCHOOL



This introduction to 4R Nutrient Stewardship opens the floor to discussions about modern agriculture and its sustainable applications for the future and why these discussions are important.



Resources available in downloadable PDF's

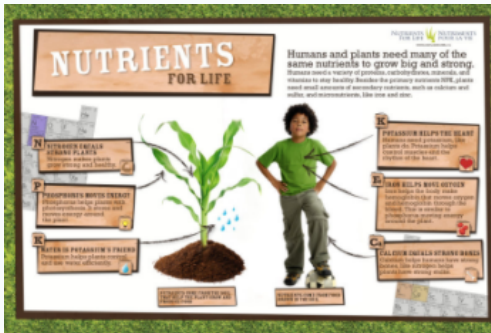


NUTRIENTS FOR LIFE



NUTRIMENTS POUR LA VIE

# POSTERS



## NPK Soccer Poster

AUDIENCE: ELEMENTARY/MIDDLE

Plants, like humans, need nutrients.

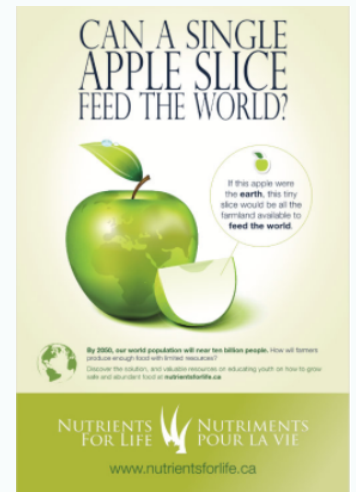
This resource poster is a great addition to your classroom showing the basics of primary nutrients. (Also available in French)



## How do Plants Grow

AUDIENCE: ELEMENTARY/MIDDLE

Plants require food just like humans, learn how they do it sustainably. (Also available in French)



## Apple Poster

AUDIENCE: MIDDLE/HIGH

Can a single apple slice feed the world? This classroom poster helps draw attention to the challenges to feeding a growing population. (Also available in French)



## Also available in an interactive version

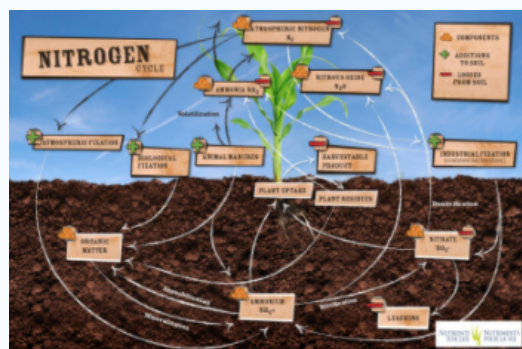
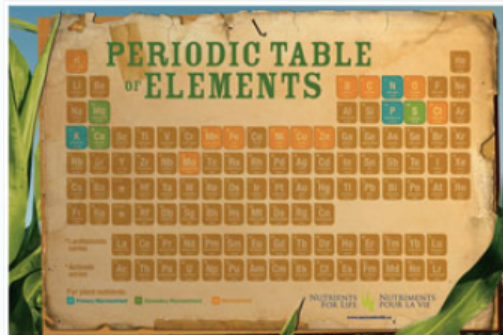
AUDIENCE: MIDDLE/HIGH

Use this interactive version of the periodic table of elements to connect biology to chemistry. This tool allows students to independently explore the primary macronutrients, secondary macronutrients, and micronutrients; all of which are essential to plants.

## Periodic Table

AUDIENCE: MIDDLE/HIGH

This colourful periodic table highlights the 17 essential nutrients required by plants. (Also available in French)



## Nitrogen Cycle

AUDIENCE: HIGH SCHOOL

Use this colourful visual to help learn about the N cycle and teach about nitrogen's role in plant growth. (Also available in French)



## Phosphorus Cycle

AUDIENCE: HIGH SCHOOL

Perfect for the science classroom, this poster focuses on the cycle of phosphorus in the environment. (Also available in French)



## Potassium Cycle

AUDIENCE: HIGH SCHOOL

Potassium is an essential element for plants, this poster displays the entire cycle of K. (Also available in French)

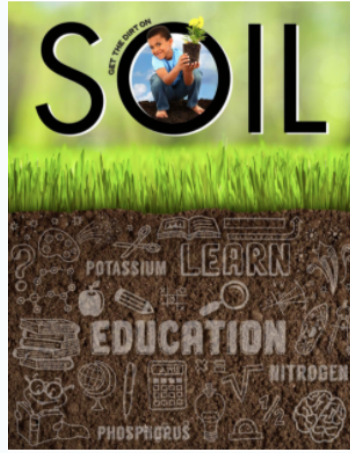


NUTRIENTS  
FOR LIFE



NUTRIMENTS  
POUR LA VIE

# DOWNLOADABLE READERS



**Under Your Feet**  
AUDIENCE: ELEMENTARY  
This activity reader introduces soil and its role in producing food. (Also available in French)

**Get the Dirt on Soil**  
AUDIENCE: ELEMENTARY  
This booklet contains articles, like "Properties of Soil" and "Soil Testing Your Yard". (Also available in French)

**Digging Through Layers of Soil Science**  
AUDIENCE: MIDDLE SCHOOL  
Introduce soil formation, the nitrogen cycle, and plant nutrient basics with the activity booklet. (Also available in French)

**4R Reader**  
AUDIENCE: GR 3- HIGH SCHOOL  
Through colourful comic strips and class science experiment, students learn about the 4Rs of nutrient stewardship through analogies like eating and eyeglasses. (Also available in French)

# GAMES/CHALLENGES



## Journey 2050

AUDIENCE: MIDDLE AND HIGH  
Take your students on a virtual farm simulation that explores world food sustainability. Using an inquiry based approach allows students to explore global sustainability (Available in English)



## Nutrient Cycle Challenges

AUDIENCE: HIGH SCHOOL  
Through these digital nutrient cycle challenge for N,P, and K, students will develop a better understanding of the cycles and its impact on crop production. (Available in English)



## Nutrients for Life

AUDIENCE: GENERAL  
You are going to provide a corn crop with the nutrients it needs to grow: nitrogen, phosphorus, potassium, and water. Try to keep all four dials in the green! (Available in English)

NUTRIENTS  
FOR LIFE

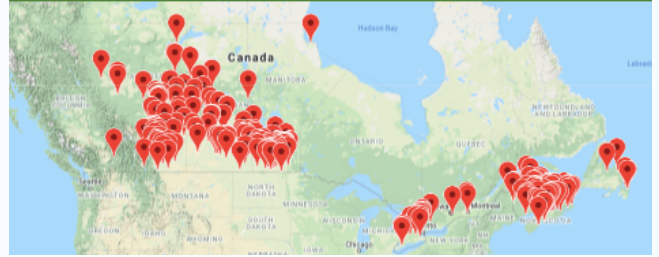


NUTRIMENTS  
POUR LA VIE

# LEARNING GARDEN GRANTS

## AUDIENCE: GENERAL

Join our school learning garden family. With Learning Gardens, students explore how modern agriculture, gardening, and plant growth play a valuable role in food production, health, and sustainability. Grants are distributed every April. Learn more <https://nutrientsforlife.ca/learning-gardens>



## Check out our YouTube Page



To learn how these gardens are excellent tools for experiential learning [nutrientsforthemind](https://nutrientsforthemind)

# MISCELLANEOUS



## Apple Activity Card

AUDIENCE: MIDDLE AND HIGH

This activity uses an apple as a model of Earth. Students discuss the various ways people use land and make predictions about what percentage of Earth's land is needed to grow our food.

(Also available in French)



## Flashcards

AUDIENCE: MIDDLE AND HIGH  
Play fun games (Around the World, Beat the Clock, or Circle Up) and test your students' plant and soil science knowledge.  
(Also available in French)

NUTRIENTS FOR LIFE		NUTRIMENTS POUR LA VIE	
Free soil and plant science resources available at <a href="https://www.nutrientsforlife.ca">www.nutrientsforlife.ca</a>			
Cross curricular word scramble			
nutrients		organic	ingredient
right	cycle	harvest	nourish
depleted	plan	USE	you 4Rs
And	garden	water	this can
planet	source	matter	drought
place	time	farmers	losses
eat	biology	includes	agriculture
living	population	am	understand
at	land	crop	organism
grow	family	learning	Environment
Thing	achieve	feeding	lifecycle
		sustainable	more
			A The

## Cross-curricular Magnets

AUDIENCE: 5th-HIGH SCHOOL

Simultaneously promote language arts and science skills with this word magnet. Make sentence with soil science and agriculture buzz words.

(Also available in French)



All of our resources are linked to all grade levels and provincial outcomes for science, social studies and health!

Q Search Provincial Standards



Book an in-class soil testing lab or bring one of our lessons to life by inviting a Regional Manager into your classroom (locations vary). We also offer virtual classroom visits. Learn more at <https://nutrientsforlife.ca/workshops>



Become a teacher member and receive free shipping on all resource orders. Learn more <https://nutrientsforlife.ca/teacher-membership>