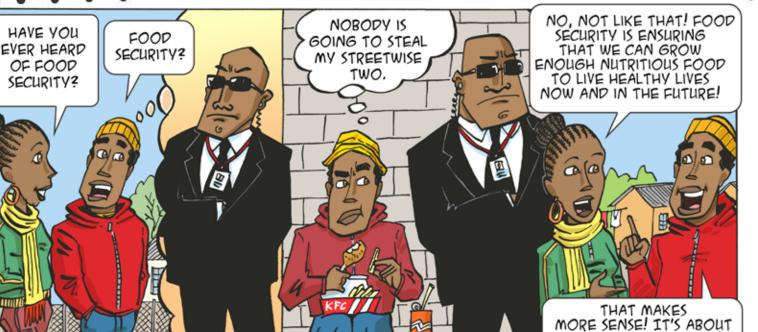


# SCIENCESSPAZA

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ONE HOME, ONE GARDEN



# ACTIVITY: FOOD SECURITY IN YOUR COMMUNITY

IN THIS ACTIVITY
YOU WILL
DISCOVER WHICH
FOODS YOU CAN
GROW IN YOUR
AREA, YOU WILL
NEED PAPER AND
A PEN.



COMPLETE THE ENVIRONMENTAL CHECK LIST. TICK THE BOX THAT BEST DESCRIBES EACH ITEM.

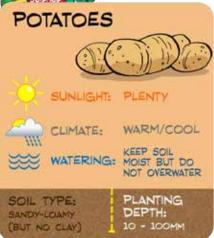
WALK AROUND YOUR
COMMUNITY WITH A
PARTNER AND SEE WHAT
FOODS PEOPLE ARE
GROWING. REPORT YOUR
ANSWERS TO THE GROUP.

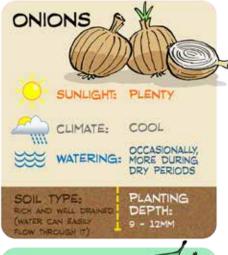
CONSULT THE TABLE ON THE NEXT PAGE AND DECIDE WHICH CROPS WILL GROW WELL IN YOUR AREA.

#### Your Environment Checklist 🗸 Tick one box for each item: Water access (Taps, JoJo) Medium Not much Space Medium Not much Sunlight Medium Not much Soil type Sandy/ Mixture dusty Average temperature

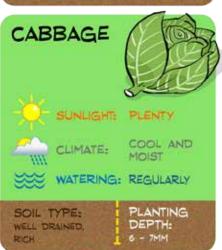
FEEDING THE NATION!

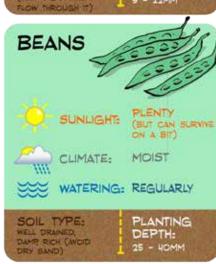
NOW THAT YOU HAVE AN IDEA OF WHAT YOUR AREA OFFERS TAKE A LOOK AT THE VEGETABLES BELOW AND SEE WHICH ONES YOU COULD GROW. REMEMBER IF YOUR AREA DOESN'T HAVE ALL THE NECESSARY REQUIREMENTS FOR A VEGETABLE TO GROW IT DOESN'T MEAN THAT YOU CAN'T GROW IT, IT JUST MEANS YOU NEED TO FIND A WAY TO GET YOUR CROP WHAT IT NEEDS.

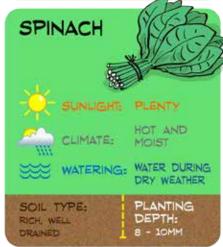










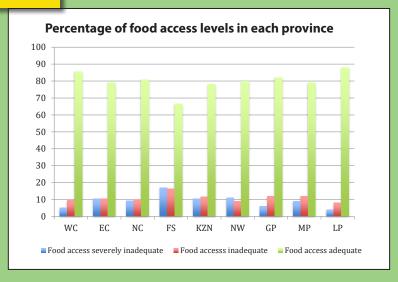


## FOOD SECURITY IN SOUTH AFRICA

The three major aspects of food security are: having enough food, that the food fulfills all our nutritional requirements and that the food is available all year round.

At a national level, scientists have Found that South Africa produces enough Food to meet the needs of all of the people. Unfortunately this does not mean that all households are able to get enough Food. Many people are unemployed and living in poverty. This results in *Food insecurity* For their household. The lack of healthy, nutritious Food means that people are more likely to get sick. It also prevents children from doing well at school, resulting in an ongoing cycle of poverty.

A Household Survey done in 2009 (Statistics South Africa) reported that about 20% of South African households do not have enough food.



It is therefore very important for people in South Africa to learn how to grow their own nutritious food, and to know which plants in their area are edible.





# STEPS FOR BUILDING A VEGETABLE GARDEN



IN SOUTH AFRICA THERE ARE A NUMBER OF PLANTS THAT GROW VERY EASILY, AND CAN PROVIDE NUTRITIOUS FOOD. SOME OF THESE ARE PICTURED HERE.





Black jacks
(Also known as wild spinach). The Fresh green leaves can be cooked like spinach.



Wood sorrel
This can be used in salads.



Acacia
Its young leaves,
Flowers, and pods
can be eaten, raw or
cooked.



Dandelion

Every part of this plant can be eaten, raw or cooked. The roots can be boiled as a vegetable.



Num Num Berry
The berries are high in vitamin C and can be eaten as Fruit or used to make jam.



Lambsquarter
The leaves can be cooked like spinach.



#### CAREERS:

THERE ARE GREAT JOB OPPORTUNITIES, SUCH AS:

- AGRICULTURE DEVELOPMENT
- NUTRITION / DIETICIAN
- LAND RIGHTS



Mbalenhle Gwacela completed her Masters degree in Agriculture, majoring in Food Security, after a Bachelor's degree in Geography and Environmental Studies and a postgraduate qualification in Policy and Development Studies. She is currently pursuing her Doctorate in Agriculture, also majoring in food security. She is a lecturer at the University of KwaZulu-Natal, as well as Cedara College of Agriculture.

# CURRICULUM LINKS

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- GR 6 LIFE & LIVING (NUTRIENTS IN FOOD)
- GR 8 LIFE & LIVING (PHOTOSYNTHESIS AND RESPIRATION)
- GR 9 LIFE & LIVING (THE DIGESTIVE SYSTEM)

## DST-NRF CENTRE OF EXCELLENCE IN FOOD SECURITY



The Department of Science and Technology - National Research Foundation has launched a Centre of Excellence in Food Security. Hosted by the University of the Western Cape and the University of Pretoria, the initiative brings together numerous researchers and institutions from around the world to help combat food insecurity in South Africa. The research will look at ways of addressing the ecological, social, economic and physical challenges we face with food insecurity.



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Postal address:	Date:

Send to PO Box 22106, Mayor's Walk, 3208 Fax to 086 610 5453 email: info@sciencespaza.org or submit your application online at www.sciencespaza.org

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