



Creation of Compost

Fact Sheet

Create a circle of dead trees



Install a layer of dried plant material (straw/dead leaves) that is 20 to 30 cm high



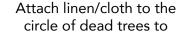
You can add a layer of bark and small pieces of wood



Repeat layers to fill compost container. Keep moist for the duration of maturation!









Add a layer of fresh plant material "weeds", if possible without seeds



If you have manure, dispose of it in fairly thin layer



Add a layer of straw, leaves, dry plant debris or earth, to run off too much rain.



The finished container for compost looks like this

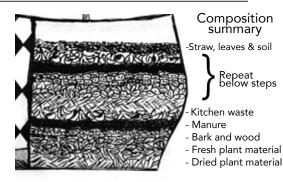


Water layer to wet them - compost pile should be kept moist for the duration of maturation



Interweave organic waste from your kitchen between the layers











Preparation of Liquid Manure

Fact Sheet

Collect 42 or more different types of leaves



Take fresh manure and break up with hands



Put in an empty onion bag with a 1kg stone or brick to help it sink

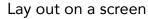


Stir clockwise and anticlockwise for 21 days











Take 1 pot of ground leaves and 1 pot of the fresh manure



Tie into a ball



Put in a bucket and add 20 pots of water with the same pot



Filter with sieve after 21 days

Scottish

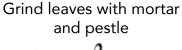
overnment

Apply one full tea cup per plant per week at the root zone











Mix ground leaves and fresh manure together





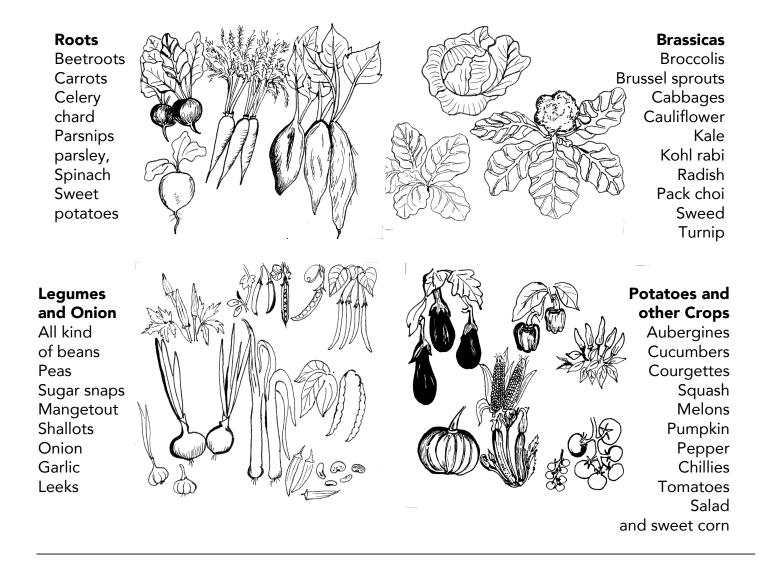


Crop rotation

Instruction Sheets (Page 1)

To help control pests and diseases it is a good idea to grow families of vegetables in separate plots and move them around (rotate) them each year.

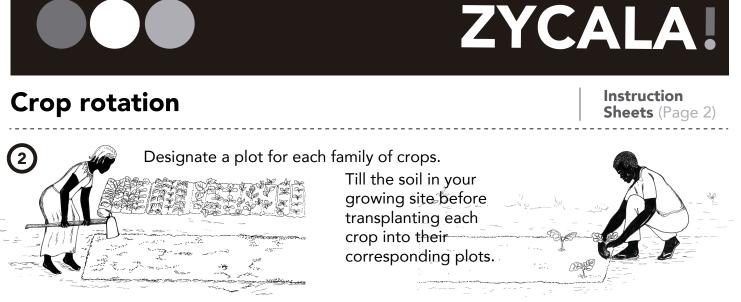
1 Divide your crops up into groups in terms of:



Zambia Youth for Conservation, Agriculture and Livelihood Action!



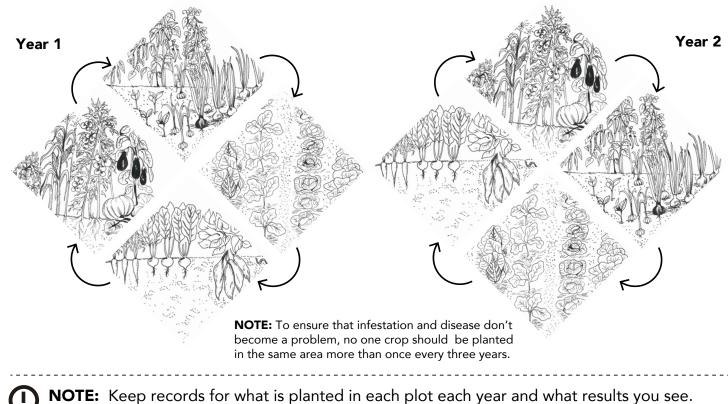




Soil needs for different crops: **Roots:** Remove any stones, weeds, if soil is heavy add grit or sharp sand for better drainage. No compost, manure or lime. **Brassicas:** cabbages family – add manure or compost before planting. If soil is acidic, add some lime at least 3 weeks before planting. **Legumes and onions:** spread a thick layer of well rotted compost or leaf mould over soil several months before planting. Mulch after planting. **Potatoes and other crops**: add lots of compost or manure several months before planting.

NOTE: Crop rotation can also improve soil structure and fertility by alternating deep-rooted and shallow-rooted plants.

Harvest the crops from your first growing season. Dig up your freshly-picked plots and aerate the vacant soil thoroughly. Shift each crop over one plot for the following season.



Use this information when planting next year.







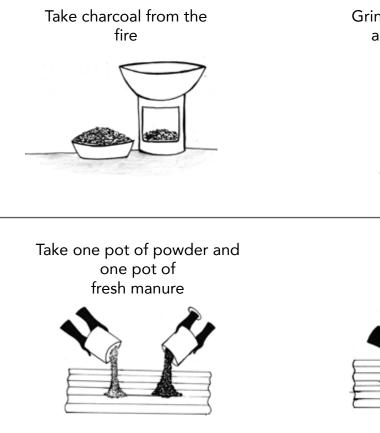


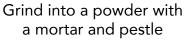




Preparation of Biochar

Fact Sheet







Mix together



Conserve for 11 days in a bucket NB: do not keep in iron materials, only plastic

Zambia Youth

and Livelihood Action!



Spread it at the root zone of each plant or tree



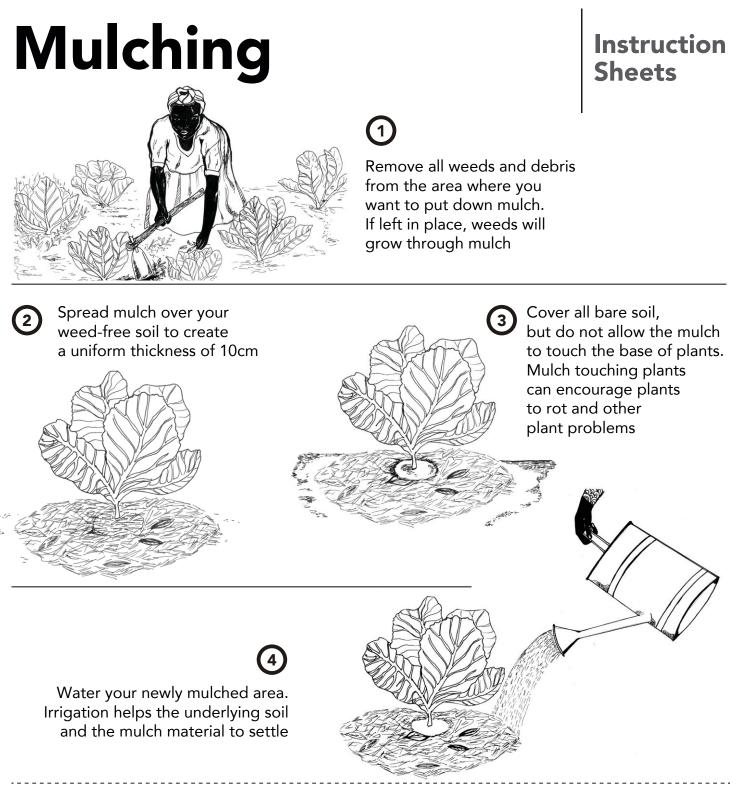












NOTE: Maintain the appropriate mulch thickness, checking your mulch every few months and replenishing it as needed. If you allow the mulch to decompose too much, then weeds and other problems may arise

Zambia Youth

for Conservation, Agriculture and Livelihood Action!

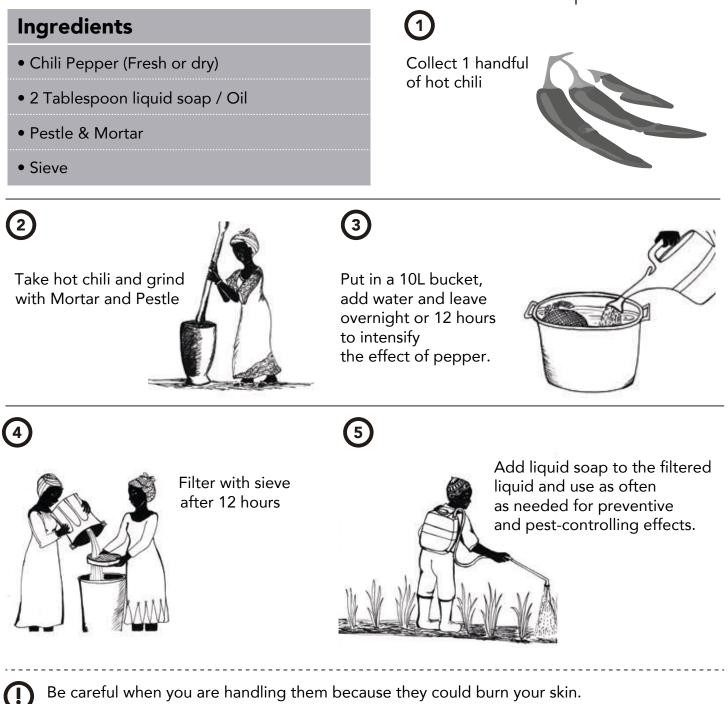






Preparation of Chili Pesticide

Instruction Sheets



The soap is important because it helps the solution stick to the leaves and fruit of the plant. Spray the solution on your affected plants using a watering can, brush, or sprayer.

Zambia Youth

for Conservation, Agriculture and Livelihood Action!











Seed Saving Tomato Seeds

Instruction Sheets

Materials needed

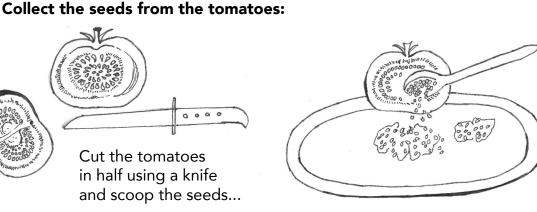
- Fully ripened tomatoes
- Knife

• Spoon • Tray/plate

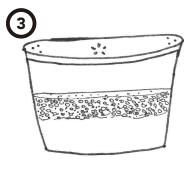
Jar/bowl with a lid

Choose seeds: Get seeds from fresh, ripe tomatoes that have been open-pollinated.





...and the pulp with a spoon or your fingers into a bowl.



5

Zambia Youth

for Conservation, Agriculture

and Livelihood Action!

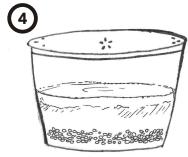
Put the seeds and pulp 4 in a labelled containe with a lid. Do not add water. Keep it in a warm place for three days, but not in direct sunlight.

0 0 0 0

Cut the tomatoes

in half using a knife

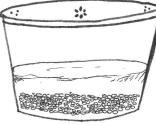
and scoop the seeds...



After three days, the pulp rots and ferments quickly, freeing the seeds, which sink to the bottom

Add a little water, let the seeds sink to the bottom again, and carefully pour off the rotted pulp.





The first rinse gets the seeds nearly clean.









Seed Saving Tomato Seeds

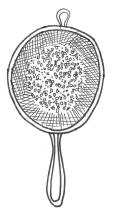
Instruction Sheets



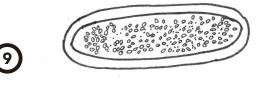
Refill the container with fresh water, let the seeds sink, and carefully pour off as much water and floating pulp and seeds as you can.

Dump the clean seeds into a strainer/sieve with mesh fine enough to catch them and drain the water.





Spread the seeds out on a plate or tray to dry. Do not dry in direct sunlight.



(10)

7



When the seeds are fully dry, store them in an airtight container. Label the bag/container so that you remember when the seeds were harvested If you keep them dry, tomato seeds should last at least five years.

Zambia Youth for Conservation, Agriculture

and Livelihood Action!









Ifyakupekanya Ifyakuchingilila utushishi ukubomfya impilipili

Instruction Sheets

Ifyakubomfya

- Impilipili (isha fresh nangu ishauma)
- Ama spoon ayakamba yabili aya sopo iya menshi
- Ibende no mwinshi
- Sefa

Bekapamo impilipili ishalinga bwino bwino



2

Bula impilipili ishikali bika mwibende, utwenokutwa



3

(5)

Bika muli ka baketi kali nama liters ikumi, bikamo amenshi nokuyaleka yakala ubushiku bonse nangula ama hours ikumi na tubili.



4

Sumpula na sef ngayapita ba hour ikumi natubili



Bikako tu sopo twamenshi kuli aya menshi usefele elo bonfya imiku ishilefwaika pakuti uchingilile noku chefyanyako utushishi



Bauwachengela sana paku bomfya pantu kuti waocha inkanda yobe. Sopo ikankala sana pant ilafwa umuti watushishi ukwikata kuma bula na kufisabo fya fimuti. Sansa uyu muti kufilimwa ifyo balile kutushishi ukubomfya icha kwitililako amenshi, brush namgu sprayer.

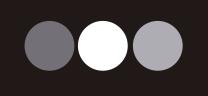
Zambia Youth

for Conservation, Agriculture and Livelihood Action!



Scottish Government







Ifyakupekanya umufundo wamenshi

Bemba version

Ukolonganye amabula aya pusana pusana, amakumi yane-nayabili (42)



Senda umufundo wang'ombe nangu Imbushi noku ushonaula namaboko



Bika ifyo usankenye mukasaka ka kanyense nokubikamo ilibwe ilyafina kg umo, pakutila akasaka kebile mumenshi

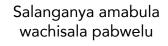


Kumbaula kukulyo na kukuso pamilungu shitatu



Zambia Youth for Conservation, Agriculture and Livelihood Action!



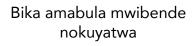




Senda amabula ayatwiwa uyabike munongo nomufundo wang'ombe nanguImbushi munongo yaiko, ichipimo chimochine



Ukapombe akasaka ka kanyense ngomupila





Ukusankanya umufundo wamabula na umufundo wang'ombe nangula uwa Mbushi



Elo mwakalonga mumbeketi mwaitilamo amenshi ukubofya / ichipimeno icho wachibofesha ukupima manyuwa amakumi-yabili (20)



Sumununa amenshi nasefa

Scottish

Government

Tapilisha ne chipimo chakapu

umo pachilimwa chimo mpapula yamilungu shitatu mumulungu umo panshi yachilimwa chimo kumishila





