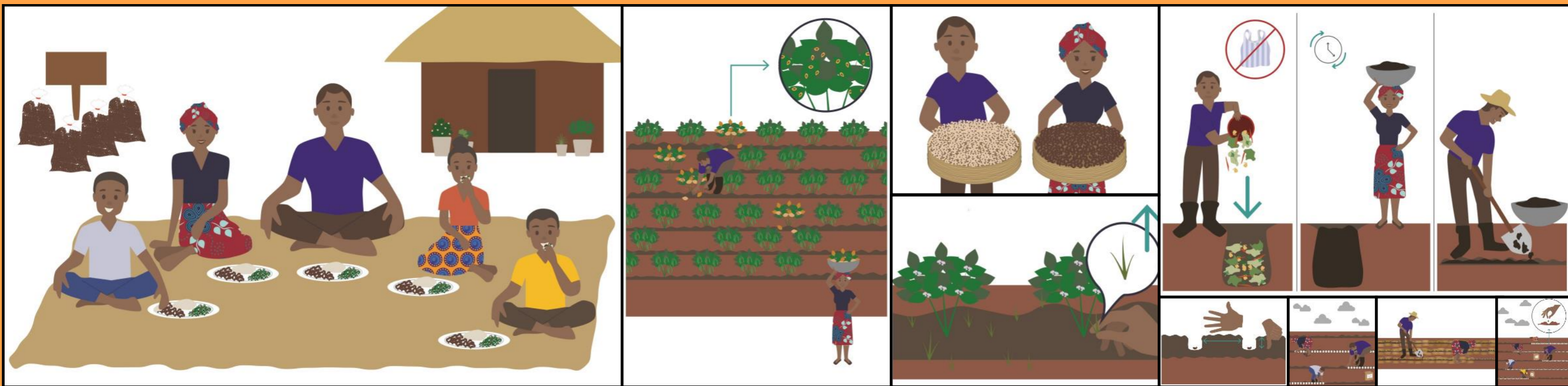




Ulimi wa Nyemba

Buku la alimi ndi aphunzitsi (Chifukwa, Kuti, Chiani, Liti ndipo Motani)



Published by
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

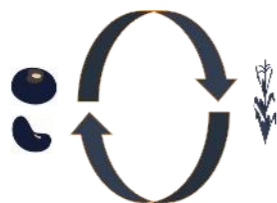
CHIFUKWA NICHANI TILIMA NYEMBA



Nyemba



Nizakudya zopatsa thanzi



Ndi zoyenera paulimi wa ka sitha-sitha



Zithandiza kupititsa patsogolo nthaka



Zionjezera ndalama pa nyumba

Chifukwa nichani tilima nyemba



Zocita za ophunzitsa:

1) Kambilanani pa mutu wa chifukwa tilima nyemba

(Nyemba nichakudya cha anthu ndi zoweta komanso zibwelesa nthaka ku dothi)

2) Kambilanani pa chithunzi-thunzi

⊕ Banja pamodzi

(Kunkhala ndi thawi ya chakudya, Kunkhala ndi chakudya nthawi iliyonse)

⊕ Zakuyda zathazi

(Kudya zakudya zambiri ndi zamagulu osiyana-siyana)

⊕ Mukhoza kugulitsa nyemba

(Lingo ndi yokudya nyemba ngati chakudya chopasa nthazi koma zikachuluka, mukhoza kugulista ndi kupezazo ndalama)

3) Fotokozani fundo zeni-zeni

4) Funsani mafunso

* Fundo zeni-zeni pa: NYEMBA

- ⊕ **Nyemba** ndi chakudya chapafupi chopatsa thanzi (protein). Ngakhale **masamba ache adwedya ndipo** aonjezela thanzi.
- ⊕ **Nyemba** zingalimidwe mwa kasintha-sintha ndi mbeu zina kuonjezela nthaka ku dothi.
- ⊕ **Nyemba** zinthandizila ku onjezera nthaka (**nitrogen**).
- ⊕ **Nyemba** zinga gulitsidwe ndi kubweletsa ndalama **mu manyumba yathu**.
- ⊕ **Nyemba** ndi mbeu zimene zikula bwino kulingana ndi **nyengo imene ipezeka kum'mawa**

Funsani alimi zimene adziwa pa mbeu ya nyemba



DOTHI LA NTHAKA LOPASA KUKOLOLA KWABWINO



Phindu ya dothi la nthaka



Kukolora mochuluka



Ndi chitetezo chabwino ku chilala



Kugwiritsa nchito fataleza wochepepa = kusunga ndalama



Tudoyo ndi matenda ochepekera



Tidoyo tating'ono tig'ono twamu nthaka



Zoolera



Mphavu ya nthaka (Minerals)



Tudoyo twa muthaka

Dothi la nthaka lopasa kukolola kwabwino



Zocita za ophunzitsa:

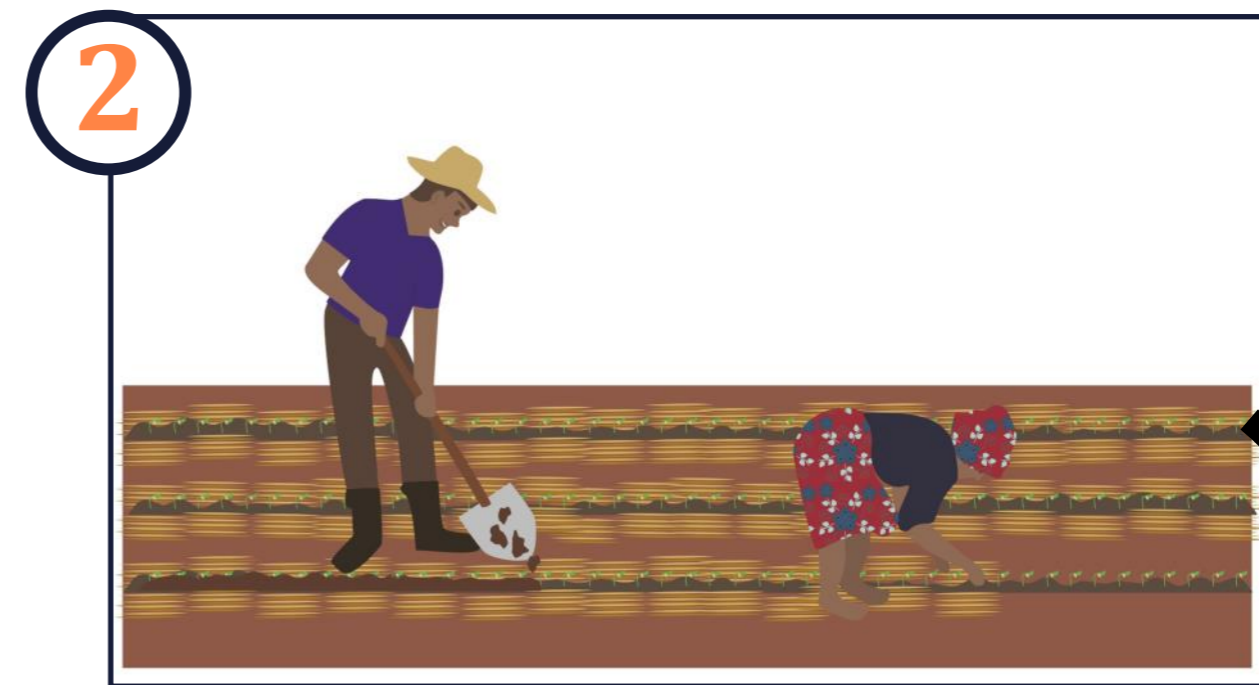
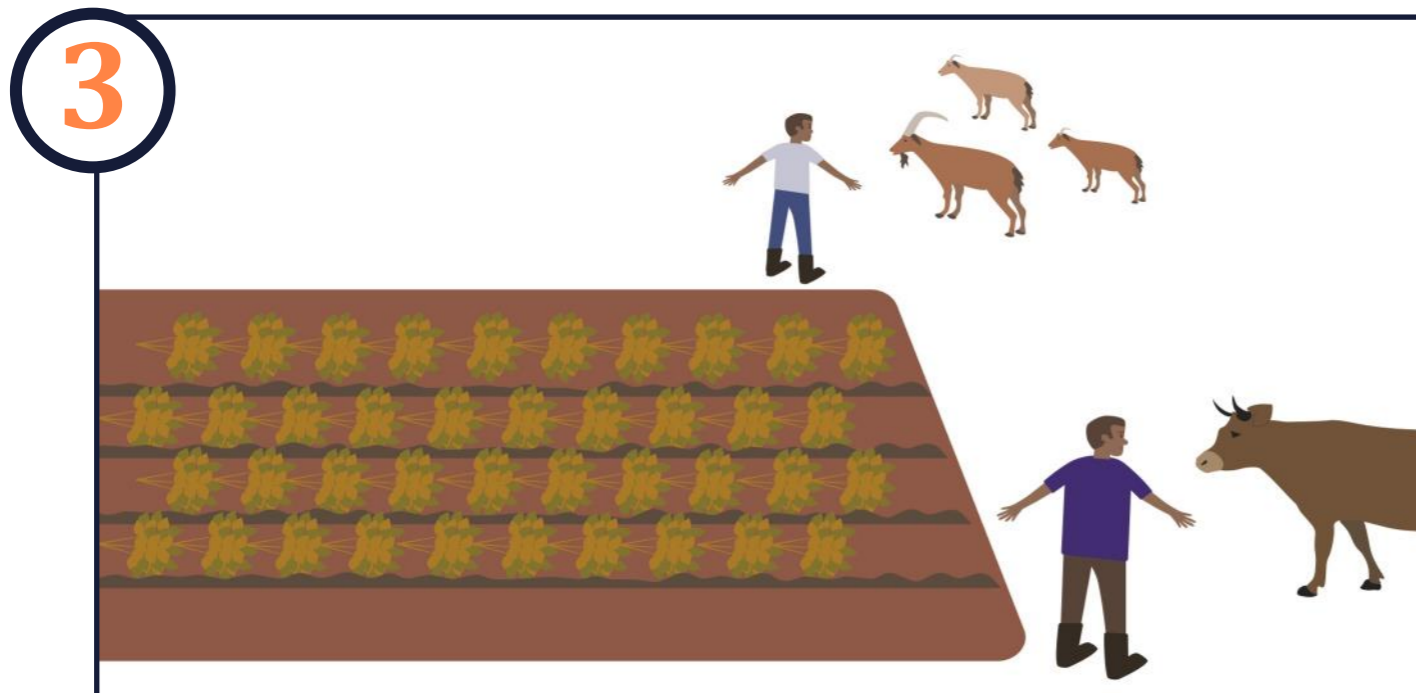
- 1) Kambilanani pa mutu wa “dothi la nthaka”
- 2) Kambilanani pa chithunzi-thunzi
 - ⊕ Zoolera
(Zipanga dothi kukhala la nthaka, kusunga madzi komanso kuthandizira tudoyo twa munthaka)
 - ⊕ Tudoyo twa munthaka
(Tudoyo tubwezela nthaka mu dothi yomwe ithandiza mbeu)
 - ⊕ Mphavu ya nthaka (Minerals)
(Ili ngati feteleza mudothi ndiponso ithandiza kakulidwe ka mbeu)
 - ⊕ Tudoyo twa muthaka
(Tudoyo tubwezela nthaka ku dothi kuti ikhale yogwiritsidwa bwino nchito ndi mbeu)
- 3) Onetsani dothi yosiyana-siyana pomwe mulili
- 4) Fotokozani fundo zeni-zeni*
- 5) Funsani mafunso



*Fundo zeni-zeni pa: Dothi la nthaka

- ⊕ **Lichulukisa zokolora** chifukwa imapasa nthaka ku mbeu. Mbeu zimafuna nthaka iyi kuti zikule bwino.
- ⊕ **Limateteza zomera kuchilala** chifukwa zoolera mu dothi zimathandiza kusunga madzi kwa nthawi yaitali.
- ⊕ **Limafuna fataleza wochepekela** chifukwa ndi nthaka yabwino yachilengedwe.
- ⊕ **Lili ndi tudoyo kapena matenda** wochepekela chifukwa tudoyo twa munthaka tuteteza dothi yathu ku tudoyo ndi matenda.

MONTHANDIZILA KUSUNGA NTHAKA MU DOTHI



Chifukwa nichani timaphimba dothi lathu? !



Imachepetsa kuphya ndi kutha kwa madzi mudothi



Imathandiza madzi a mvula kulowa mu dothi mosabvuta



Imachepetsa maudzu

Momwe tinga thandizile nthaka ya dothi lathu



Zochita za ophunzitsa:

1) Kambilanani pa chithunzi-thunzi

1. Zouuma za zomela ndi zoolera

(Siyani zouuma za zomela mu munda wanu ndipo ikami zoolera mu munda)

2. Phimbani dothi*

(Phimbani munda yanu (riplines/basins) ndi maudzu kapena masamba. Izi zichepetsa kukokoloka kwa dothi komanso ipititsa patsogolo munyontho mu munda)

3. Sungani ziweto kutali ndi munda

(Osalola kudwesela ziweto mu munda chifukwa zimachepesa nthaka mu dothi)

2) Onetsani njira zosiyana siyana zophimbira dothi

3) Funsani manfunso

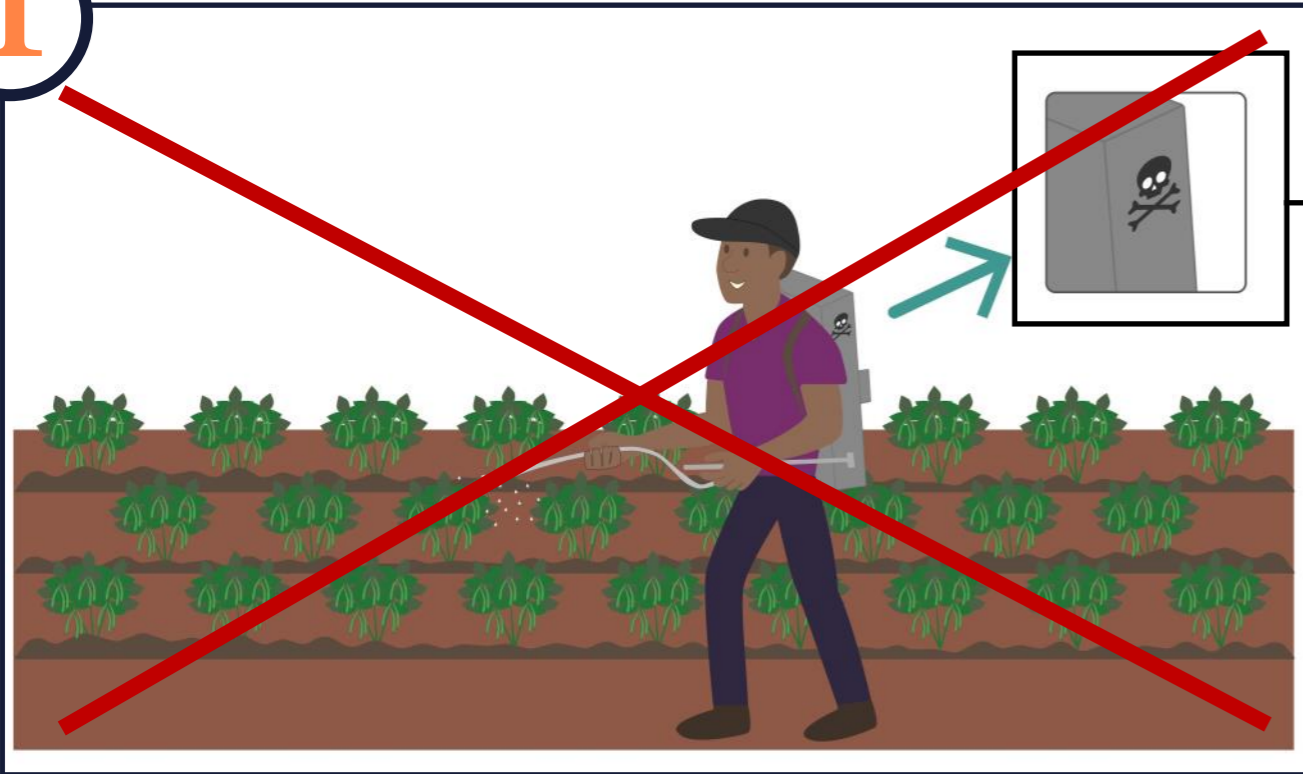
*Fundo zeni-zeni pa:

Chifukwa nichani kuphimba dothi

- ⊕ Kumachepetsa kuphya mudothi ndi kuthandiza tudoyo twa mu nthaka chifukwa likaphya kwambili, tudoyo tumafa.
- ⊕ **Kumathandiza madzi a mvula kulowa mu dothi mosabvuta ndi kuthandizila mbeu kukula bwino.**
- ⊕ **Kumachepetsa maudzu. Maudzu amapikisana kusebenzesa nthaka mu dothi ndi mbeu.** Pothela zophimbila zimaoola ndi kubwelesa nthaka mu dothi.

ZIMENE TIFUNIKA KUPEWA KUTI TITETEZE DOTHI YATHU

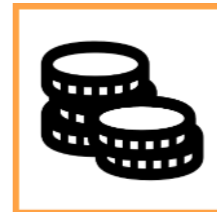
1



Chifukwa nichani tichepetsa kusewenzesa fataleza



Uchepetsa mphamvu ya dothi

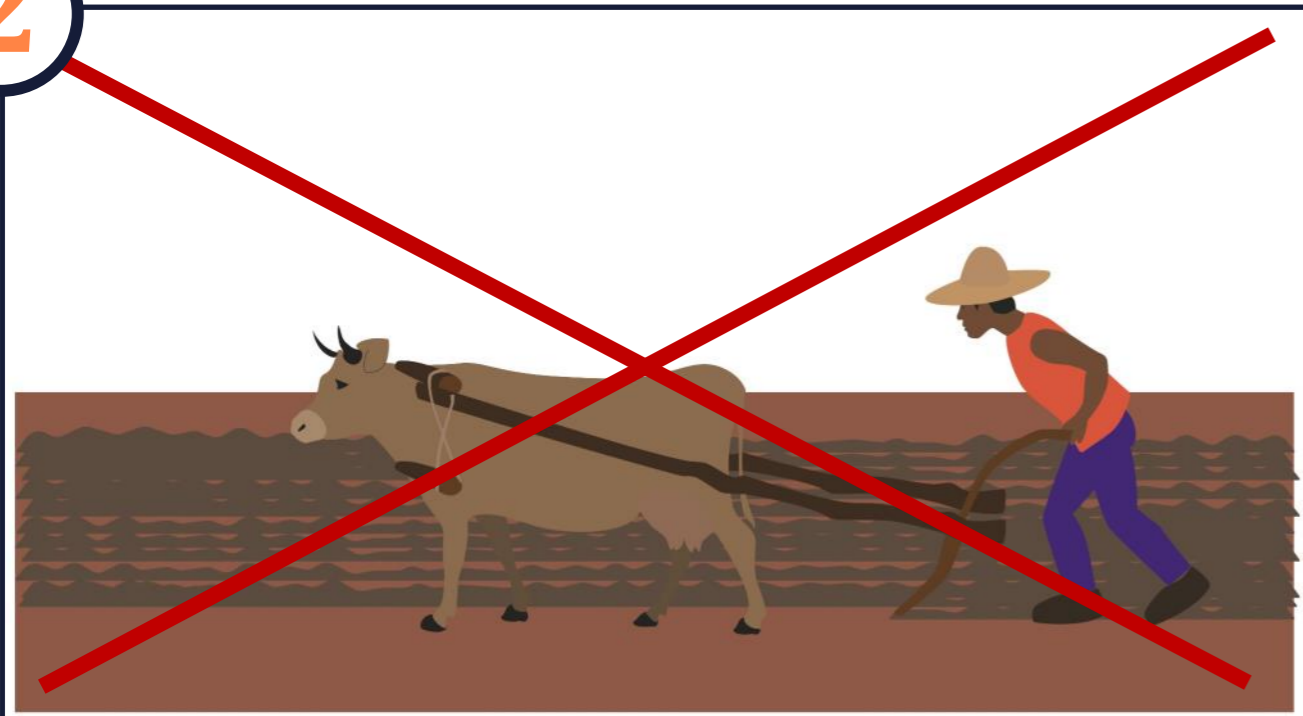


Kusebenzesa ndalama zochepa ku fataleza

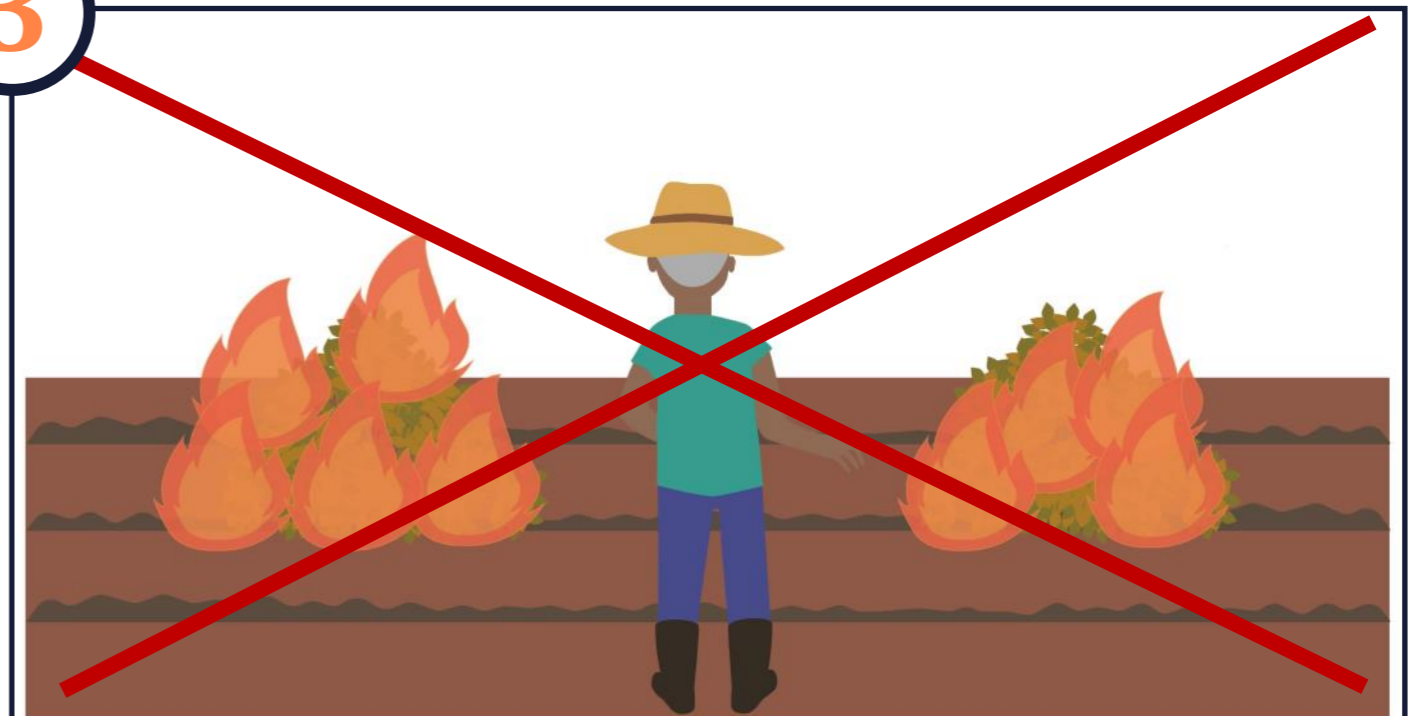


Kuchepesa kufa kwa tudoyo twa munthaka

2



3



Zimene tifunika kupewa kuti titeteze dothi yathu



Zochita za ophunzitsa:

1) Onetsetsani kuti zithunzi zobaya ndi zisonyeza zithu zosaloledwa kuchita

2) Kambilanani pa Chithunzi-thunzi

1. Pewani kusebenzesa fataleza

(Musasebenzesa fataleza ndi mankhwala yambiri mu munda. Koma sebenzetsani zoolera kapenda manyowa)

2. Pewani kugaula mu munda

(Musagaula mu munda chifukwa nthaka ya dothi imawonongeka. Sewenzesani njira zakalimidwe ka tsopano (ripping and basins)

3. Kutentha zouma za mbeu

(Musatenthe zouma za mbeu mu munda chifukwa zimateteza kuuluka kwa dothi ndi mphepo komanso kukokoloka kwa nthaka. Ndiposo kutentha kumapha tudoyo tofunikila ku dothi)

3) Funsani mafunso

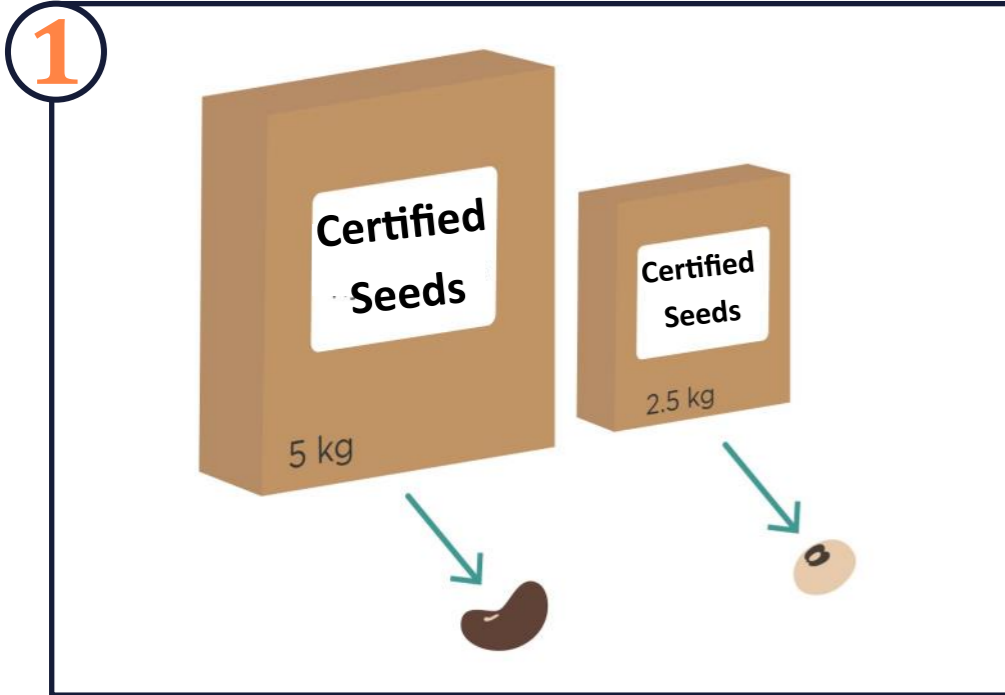
• **Fundo zeni-zeni pa: Chifukwa nichani tichepetsa kusewenzesa fataleza**

⊕ Ngati mwasebenzesa fataleza kwa nthawiyaitali, dothi yathu imaonongeka komanso **izafuna fataleza nthawi zonse** kuti mbeu zikule bwino.

⊕ Fataleza ndi **odula**. Tingagwiritse **ndalama** zomwe tigulira fataleza ku **nchito zina**.

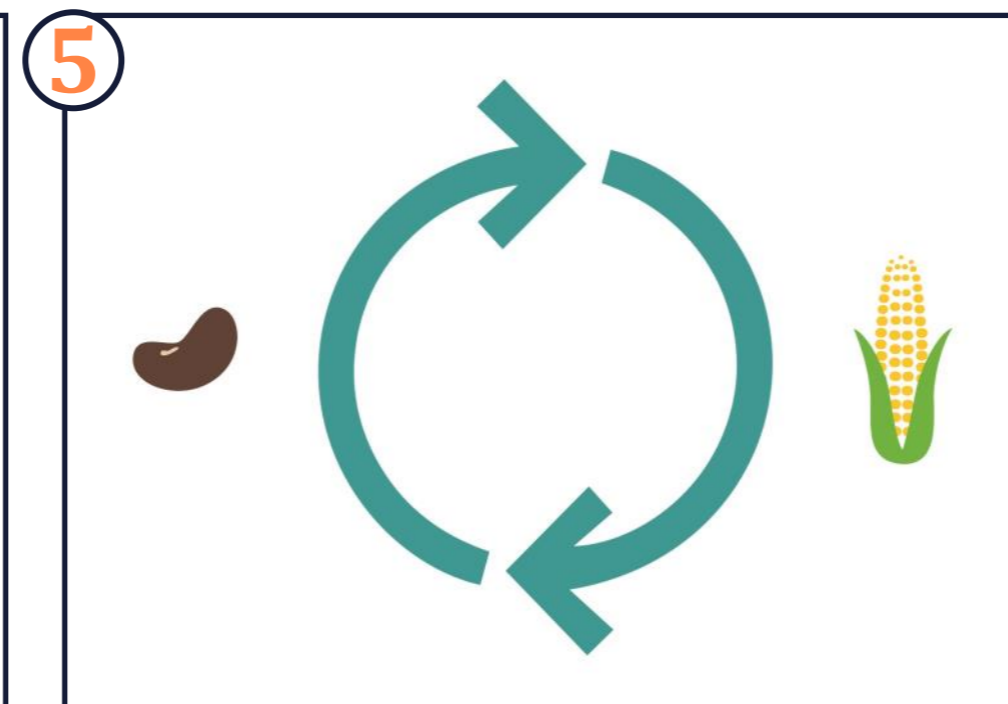
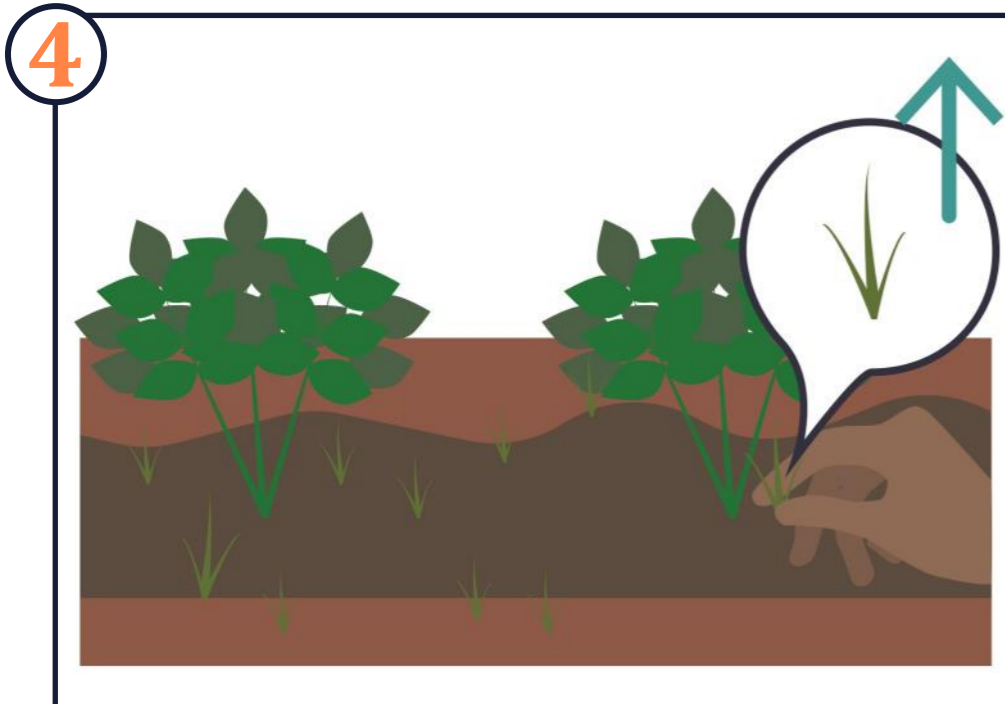
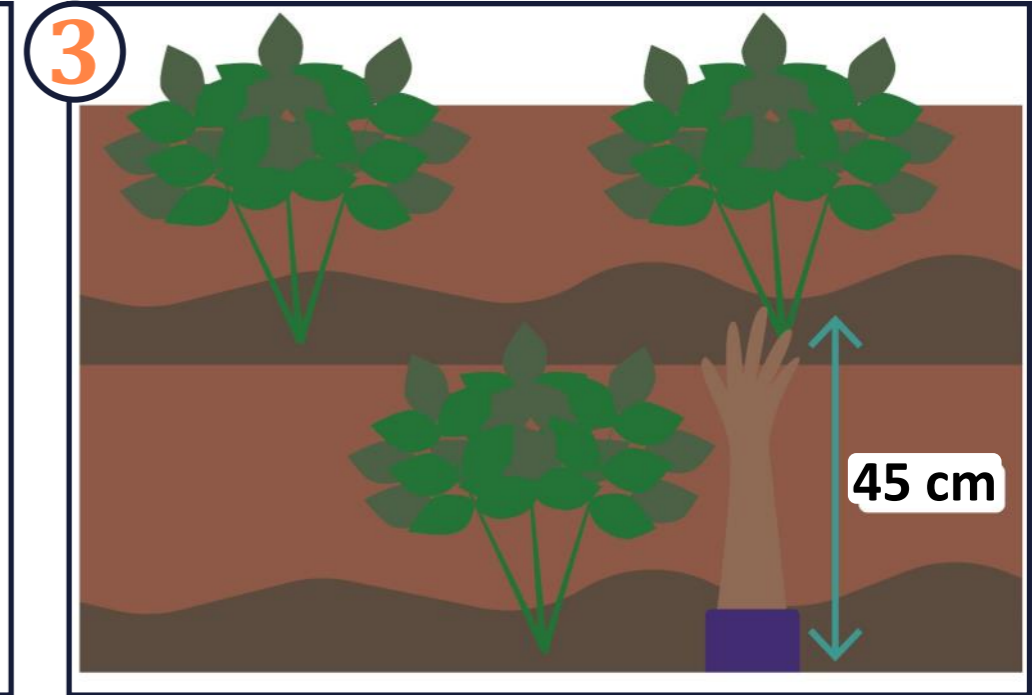
⊕ **Kugwiritsila nchito** fataleza kwambiri **kumapha tudoyo mu dothi** tomwe tuthandiza mbeu kuti zikule bwino .

NSONGA ZOTHANDIZA KUTI MUKOLOLE ZOCHULUKA



2

Jul	Aug	Sep	Oct	Nov	Dec
					Q
Jan	Feb	Mar	Apr	May	Jun
Q					



Nsonga zothandiza kuti mukolole zochuluka



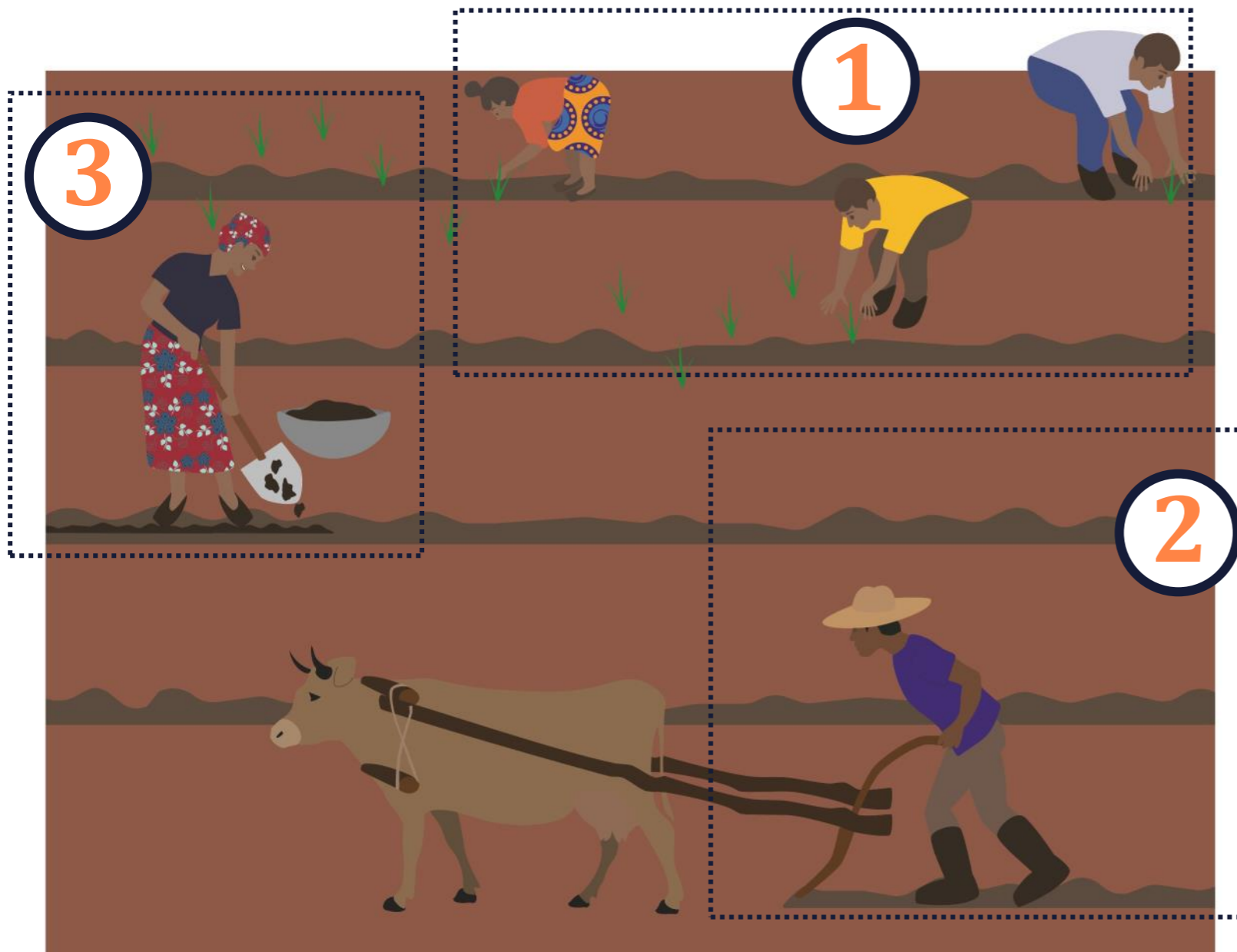
Zochita za ophinzitsa:

1) Kambilanani pa chithunzi-thunzi

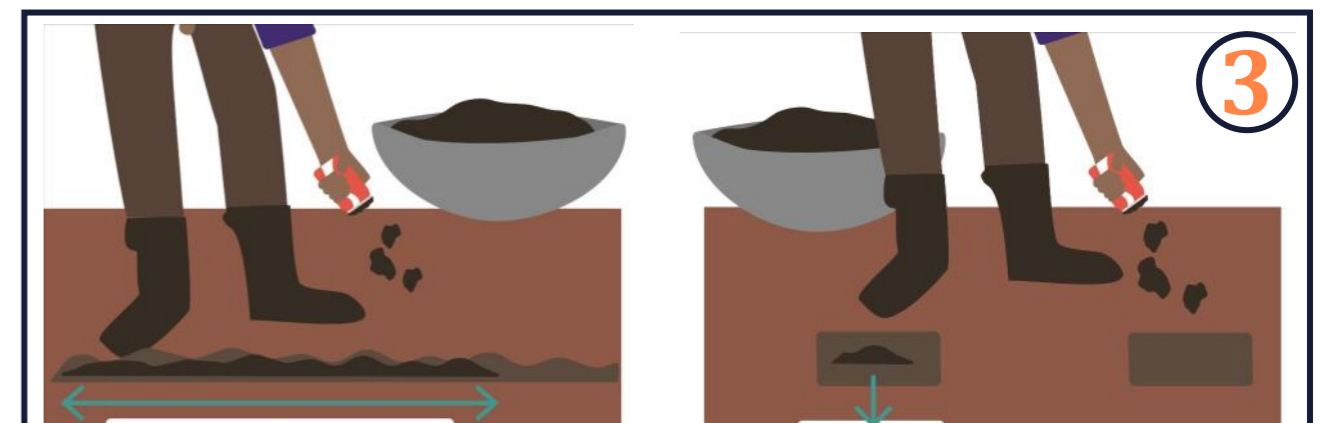
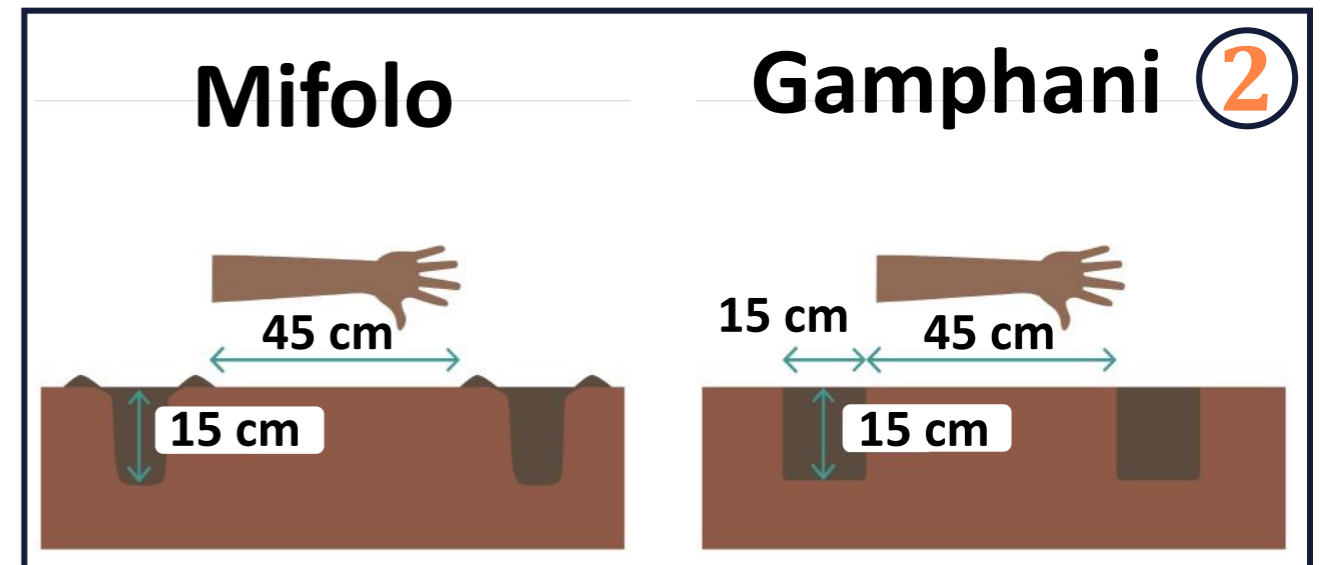
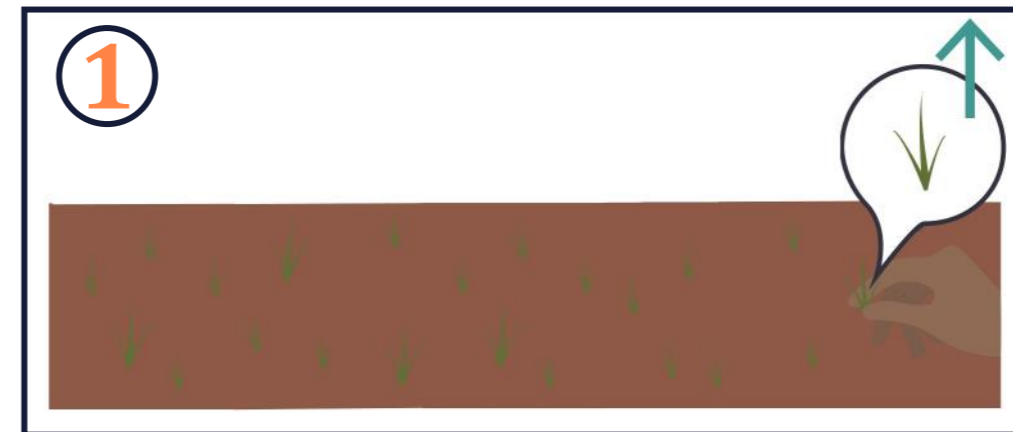
1. **Byalani mbeu zosindikizidwa (certified seed).** Izi ndi mbeu zosindikizidwa ndi boma pa makulidwe ndiponso ukongola kwake.
2. Byalani mbeu za nyemba mu January kapena February. **Nthawi yobwalila mbeu ingasiyane-siyane kulingana ndi nthawi ya mvula.**
3. Byalani mbeu pa **mupata wa 45cm**, ndi kusiya 5-10cm pakati pa mbeu.
4. Sungani munda wanu **wopanda maudzu**: Zimapikisana kusebenzesa nthaka ndi mbeu.
5. **Limani mwakasintha-sintha nyemba zanu ndi mbeu zina**, (mwachitsanzo; ndi mbeu za njere kapena mbeu zobalila pansi). Nyemba zimaonjeza nthaka mu dothi.
6. Kutu mukakolola zochuluka mu chaka ca mawa, **sungani mbeu za nyemba za bwino zakuti mukabyalenso mobweleza.** Mungabyale mbeu zimenezi mosapitilira zaka zitatu.

2) Funsani mafunso

NYEMBA: KUKONZA MALO OLIMAPO



Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



Udzadza manja awili katatu pa 1m

Udzadza manja awili kamodzi pa dzenje imodzi

Nyemba: Kukonza malo olimapo



Zochita za ophunzitsa:

1) Kambilanani pa kalenda

(Tsimikizilani kuti minda yikonzedwa nthawi yomwe izalola kukolola mbeu za nyemba pomwe mvula yaikulu ichepokela. Nyemba zinga kololedwe pa 75-90 days. Masiku okulolela angasiyane kulingana ndi mtundu wa mbeu komanso kalokwedwe ka mvula)

2) Kambilanani pa Chithinzi-thunzi

1. Kulimilira mbeu mumunda

(Chosanu udzu mumunda mukalibe kulima. Maudzu amapikisana ndi mbeu. (Mukhoza kuchosa udzu ndi manja kapena zisulo zina monga nkhasu)

2. Kukumba mifolo kapena gamphani

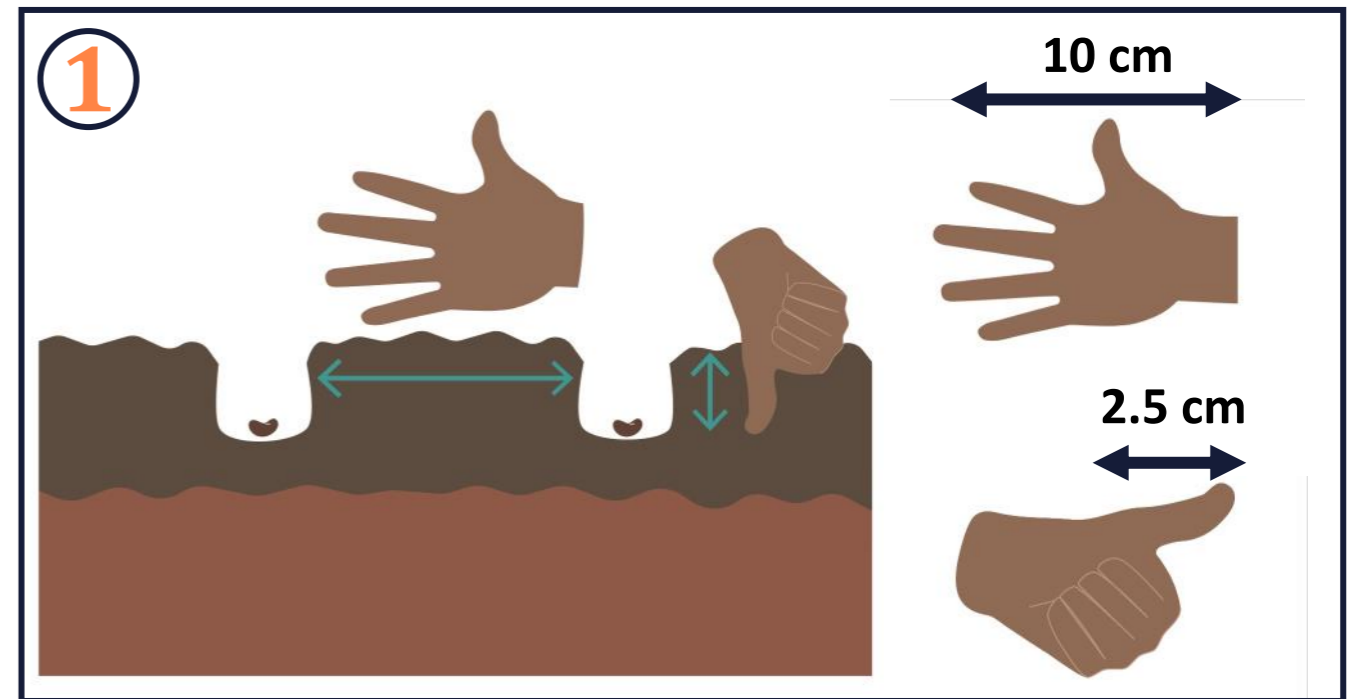
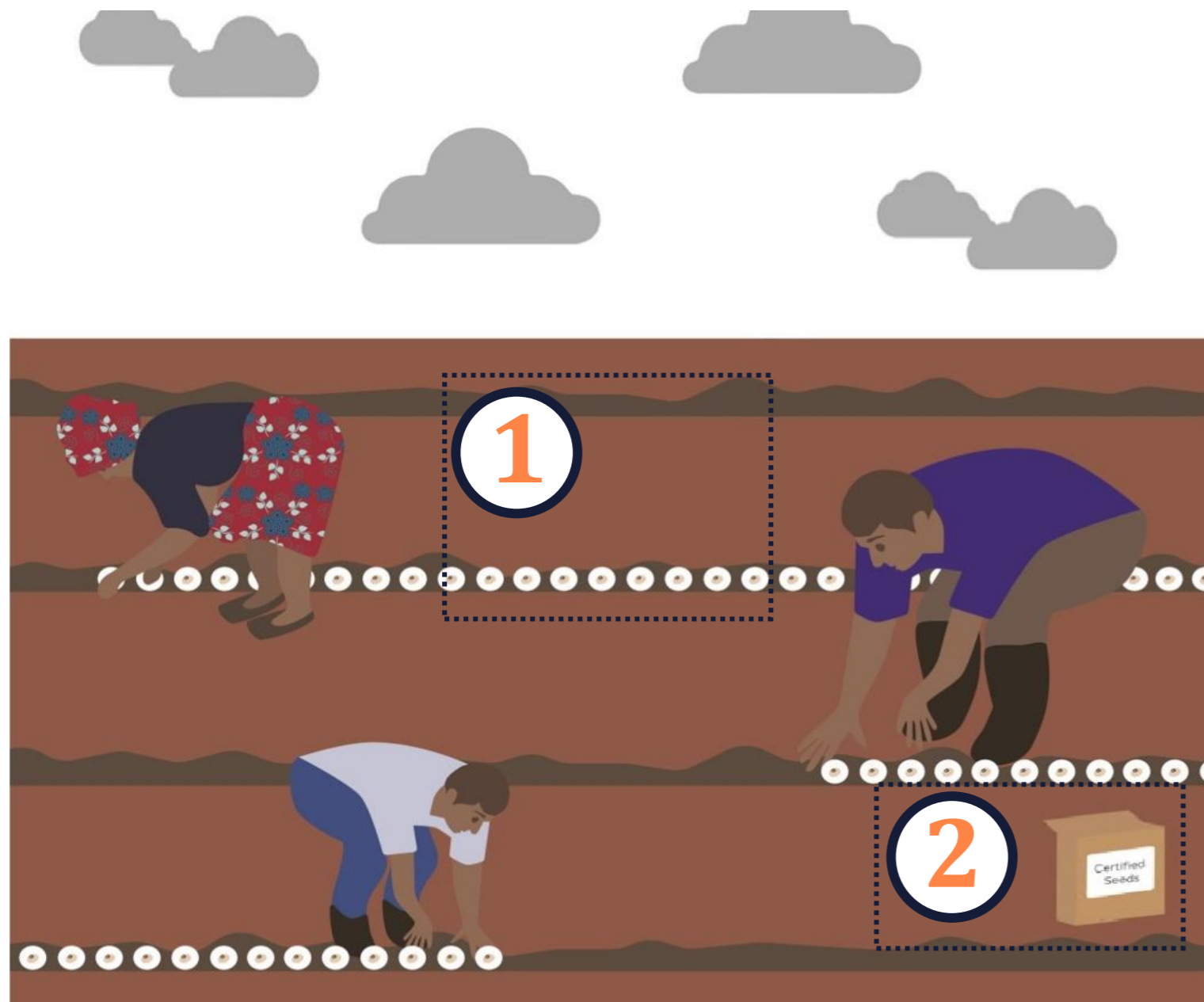
(kumbani mifolo kapena migodi ya gamphani. Mufolo ufunika kunkhala 15cm pansi; Migodi wa gamphani ufunika 30cm muutali, 15cm pansi ndipo 15cm muufupi. Siyanai mupata wa 45cm pakati pa migodi kapena mifolo. **Mifolo ndi migodi ya gamphani ndi oyenera pa ulimi wa nyemba**)

3. Kuika zoolera kapena manyowa youma

(Ikani zoolera kapena manyowa youma mumifolo olo mu gamphani. **Nzazani manja awili kamodzi pa dzenje imodzi la gaphani kapena atatu pa meter mu mifolo**)

3) Funsani mafunso

NYEMBA: KUBYALA NYEMBA



Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0											0

Nyemba: Kubyala nyemba



Zochita za ophunzitsa:

1) Kambilanani pa Kalenda

(Nyemba sizifunika kulimidwa ku malo ali ndi madzi ambiri. **Nyemba** zinga byalidwe munthawi ya **mvula yokwanira**. Nthawi yobwala angasiyane kulingana ndi mtundu wa mbeu komanso kalokwedwe ka mvula)

2) Kambilanani pa Cithunzi-thunzi

(Sankhani mbeu zabwino zosaonongeka zobyalala)

1. Mipata posangwa mbeu (spacing)

(Nyemba zosindikizidwa zibyalidwa imdozi-imodzi pa muyeso wa 5-10cm ndi kuikidwa 2.5cm pansi)

2. Mbeu

(Byalani mbeu zosindikizidwa zolemela **2.5kg pa lima imodzi**)

3) Zionetselo

(Pasani mlimi aliyense kuti awonetse kabwalidwe ka mbeu mumigodi itatu motsatila miyeso ndi kaikidwe ka pansi)

4) Funsani mafunso

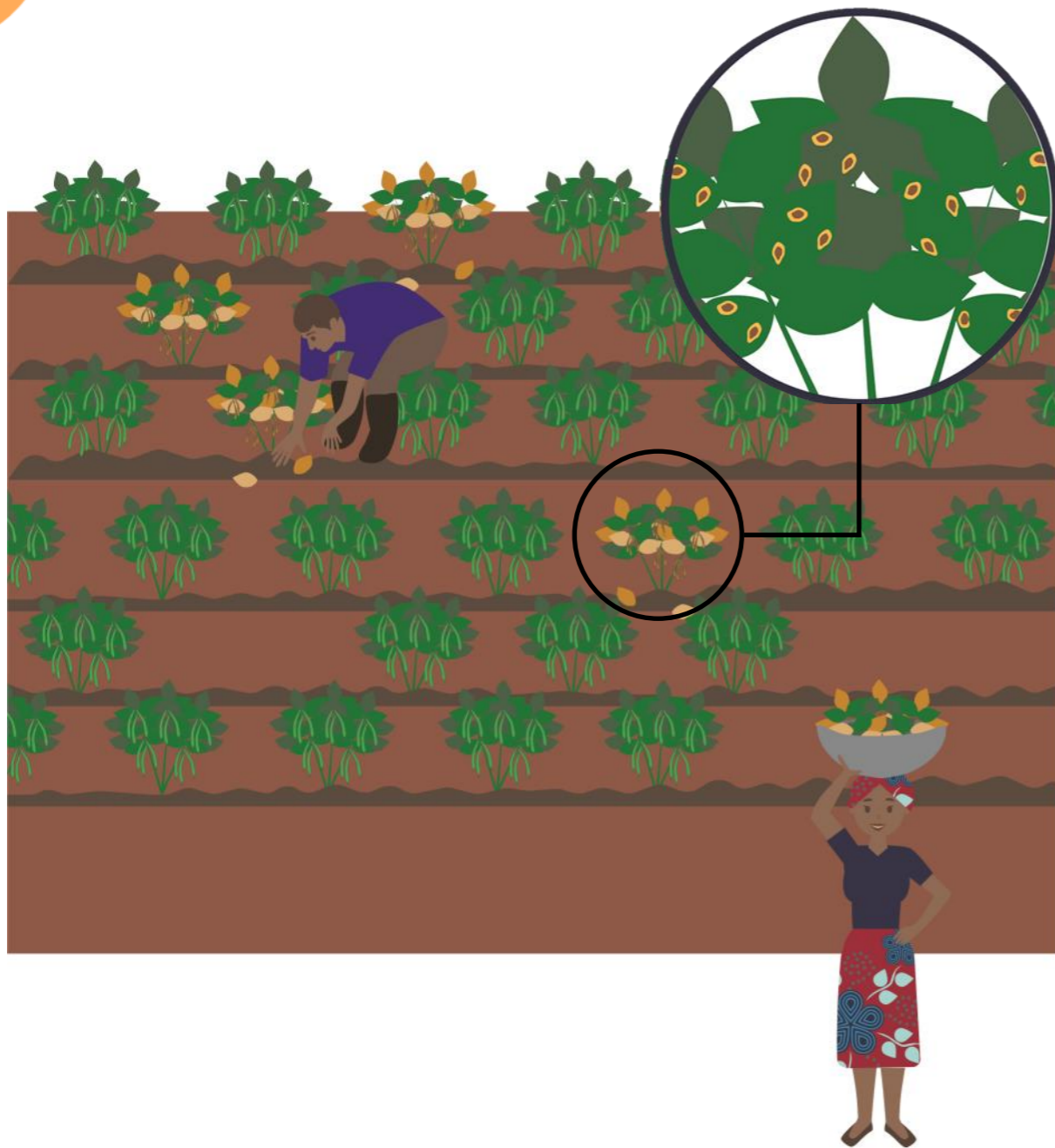


Zochita zina za ophunzitsa:

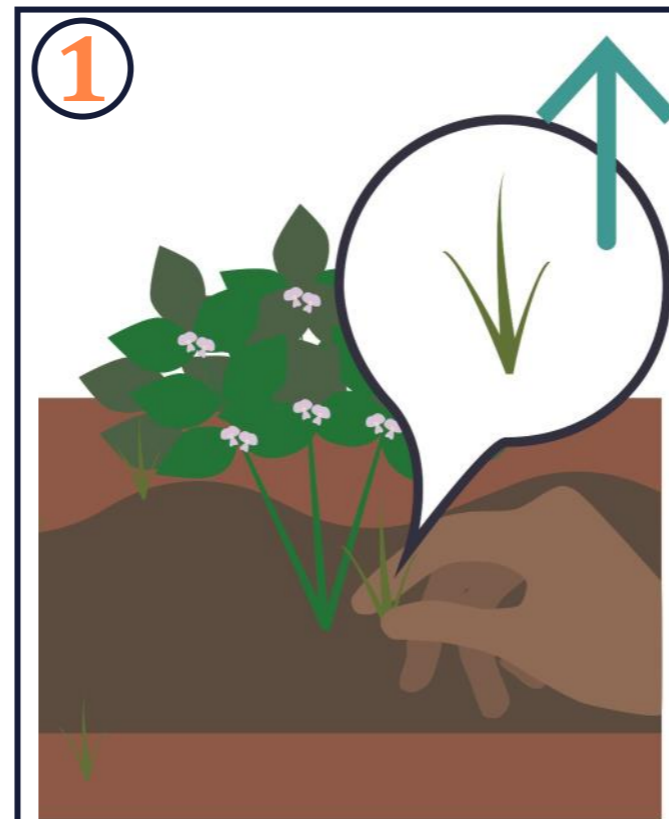
Kulima mbeu zosiyana pa malo amodzi

- ⊕ Pokhala ngati mbeu zophimba dothi, nyemba zingalimidwe pamodzi ndi chimanga, mapila kapena mabere.
- ⊕ Kulima nyemba pamodzi ndi mbeu zina kubwezera nthaka mu dothi ndi kusunga munyontho omwe uthandiza chimanga, mapila kapena mabere.
- ⊕ Ngati zilimidwa pamodzi ndi mbeu zina, nyemba zifunika kubwalidwa pa mpata wa 20cm patapita masabata 4-6 (weeks) pomwe mbeu zina zina bwalidwa.

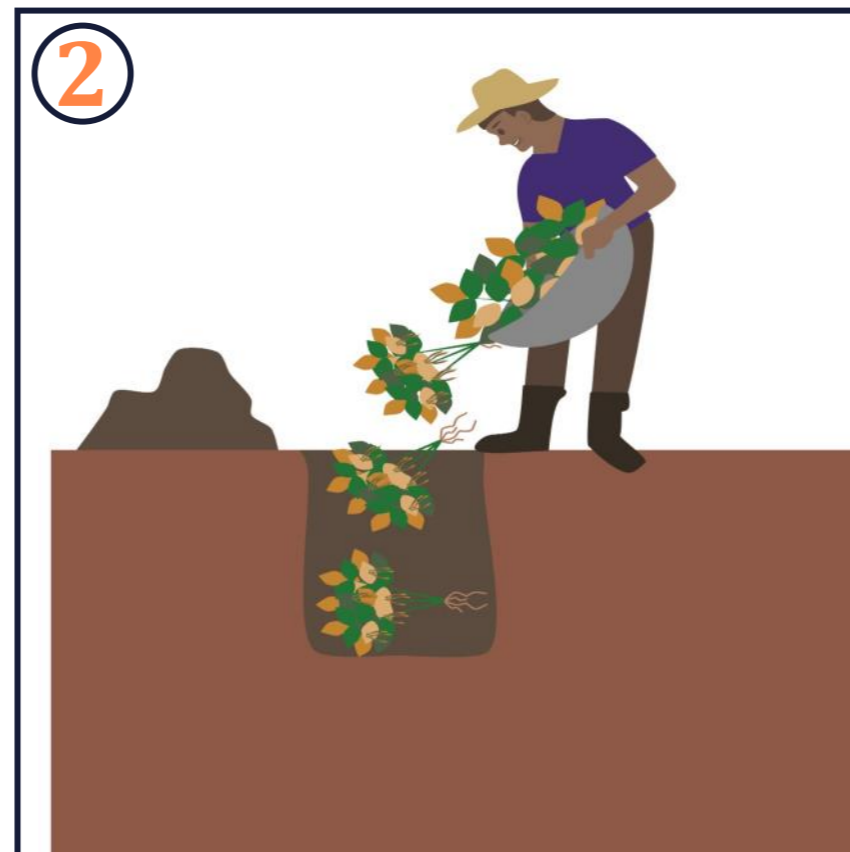
NYEMBA: TUDOYO NDI MATENDA



Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0									0



Pambuyo po byala	Sabata 1	Sabata 2	Sabata 3	Sabata 4	Sabata 5	Sabata 6
Kulimilira koyamba		0				
Kulimilira kachiwiri				0	0	



Pambuyo pobyala	Onetsetsani
Sabata 1	
Sabata 2	
Sabata 3	0
Sabata 4	0
Sabata 5	0
Sabata 6	0
Sabata 7	0
Sabata 8	0
Sabata 9	0

Nyemba: Kusamalira mbeu ku tudoyo, matenda ndi udzu



Zochita za ophunzitsa:

1) Kambilanani pa kalenda

(Munthawi imene mbeu zikula, mufunika kukhala uonetsetsa kuti zikula mwa thanzi. Chotsani mbeu za matenda mosachedwa)

2) Kambilanani pa Chithunzi-thunzi

(Mbeu za matenda zingadziwike ndizizindikilo zosiyana-siyana— makamaka kumasamba ku mitengo (sterms))

1. Kulimilira

(Kuchosa udzu mu mbeu kufunika pafupi-pafupi. Pa nthawi ya maluwa, sebenzesani manja pochosa udzi kuti mupewe kugwetsa maluwa. Kuchosa udzu kuchepetsa mupikisano wa zakudya, madzi ndi dzuwa)

2. Mbeu zodwala ndi zokhuzidwa ndi tudoyo

(Pamene mbeu zamera, zikamacita maluwa ndi kubeleka mwina panthawi ya cilala, nyemba zimagwidwa ndi tudoyo. tudoyo)

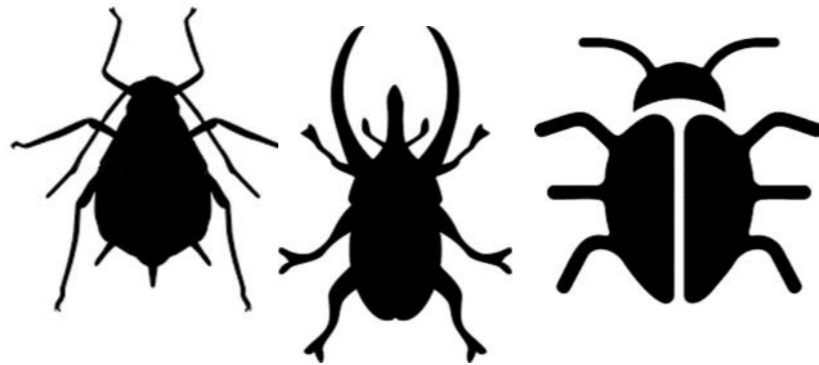
3) Funsani mafunso

NYEMBA: M'MENE TINGAZIWILE TUDOYO NDI MATENDA

Tidoyo tofalikila kwambiri

Nyemba zimakoka tudoyo kwambiri monga utu:

1. Aphids
2. Pod Sucking bugs
3. Blister Beetle
4. Pod Borer



Sewenzesani njila ya kasintha-sintha, byalani mbeu pamodzi ndi zina zomwe zili ndi mphambvu yoteteza tudoyo ndi kulimilira mbeu pafupi-pafupi pofuna kupewa tidoyo. Zina zingagwilitsidwe n'chito moonjezera kuteteza tudoyo ndi:

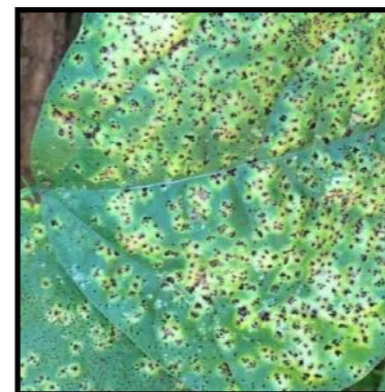
Tephrosia	Masamba ya moringa
Mphilipili yogaya	Garlic yogaya
Fodya wamphuno	Blue gum/Neem tea

Zizindikilo za mbeu zodwala



Nthomba ku masamba (Leaf spot):

Maonekedwe amasamba ankhala ndi nthomba, pothela pake masamba auma ndi kugwa.



Nguwe:(Rust):

Kufuwila ndi kukongonyala kwa Masamba, makoko ndi mitengo ya nyemba.

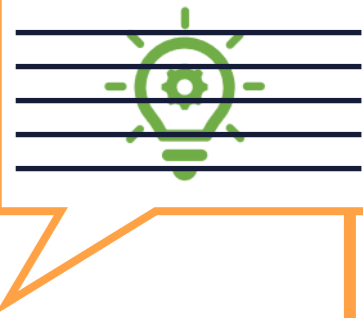


Ntomba zikula ku masamba

(Bacteria blight): Masamba amaoneka ngati yaphya ndi moto.

Kuola kwa mtengo: Kambiri zimaoneka m'malo osapa. Matenda amakhudza mutengo wa nyemba.

NYEMBA: M'MENE TINGAZIWILE TUDOYO NDI MATENDA



Zochita za ophunzitsa:

1) Kambilanani pa tudoyo topezeka kwambiri

(Funsani pa tudoyo tosiyana-siyana ndi zimene alimi adziwa. Onestestsani kuti mbeu zanu zikula bwino **nthawi zones** maka-maka zikamela, pobeleka ndiponso nthawi ya chilala. Masulilani kuti mukhoza kuteteza tudoyo posankhaniza mpilili, fodya wa mphuno ndi garlic yogaya ndi kuika mumadzi maola ali 24 hrs.

2) Fusani alimi ngati aziba mankhwala achilengedwe ogwebana ndi tudoyo

3) Kambilanani pa matenda opezeka kwambiri

(Mbeu zokhuzidwa ndi matenda zioneka ndi zizindikilo zosiyana-siyana ku **mayani ndi ku m'tengo**. Kambilanani pa **zithinzi-thuzni zoonesta matenda yomwe yafotokozedwa ndi ku yasiyanisa**)

Mbeu zili ndi matenda

(Mbeu zomwe zili ndi matenda zifunika kuchotsedwa **pomwe zapezeka**. Zifunika ku zulidwa ndi kufocheledwa **kutali ndi munda**. Ngati zataidwa pafupi ndi munda kapena dimba **zingathe kubweletsanso matenda ku mbeu zina za thanzi**)

4) Funsani funso


NYEMBA: KUKOLOLA NDI KASAMALIDWE




Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	☉	☉	☉	☉							

2


Kusaka Nyemba !




Misambo



Nyemba zodwala



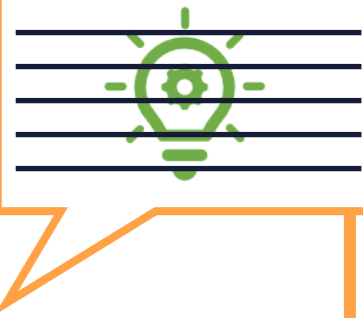
Makoko



Masamba



NYEMBA: KUKOLOLA NDI KASAMALIDWE



Zochita za ophunzitsa:

1) Kambilanani pa kalenda

(Kukolora kufunika kucitika pomwe nyenba zakula **mofikapo** mu makoko ndi kuyamba ku uma komanso masamba akayamba kugwa). Nyemba mukhonza kukolola **mobweleza-bweleza katatu** ngati zakula mofikapo. **Musachose mitengo ya nyenba mumunda** chifukwa ibwelesa nthaka mu dothi ndi kuchepesta ndalama zogulila feteleza wa mbeu .
Kuchedwa kukolola kumabweretsa tudoyo m'munda.

2) Kambilanani pa Chithunzi-thunzi

Kusankha nyemba

(Posankha nyemba zabwino ndi zaukhondo gwiitsani n'chito **manja anu**. Sankhani zonse zosayenera monga misambo, mayani, nyemba za matenda kapena makoko otsalira)

Kupepeta

(Pepetani nyemba kuchosa misambo, mayani, nyemba za matenda kapena makoko otsalira)

3) Funsani mafunso

NYEMBA: KASUNGIDWE

1



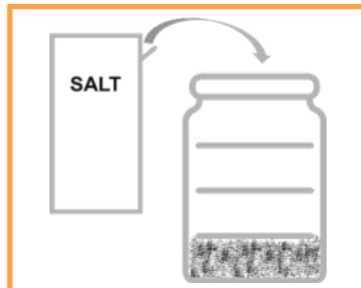
2



Kodi Nyemba zauma bwino:
Kuyesa ndi muchele



Gwiritsani nchito botolo yaikulu youma bwino komanso yaukhondo, muchele ndi nyemba zing'ono.



Ikani muchele mubotolo - onani Pa chithunzi



Ikani nyemba mu botolo kufikisa pakati - onani pa chithunzi



Tsekani botolo, igunduzeni ndi Kuikhaza kwa nthawi yokwanila 10 minutes



Onani ngati muchele siuna mama-tile mbali mwa botolo

Nyemba: Kasungidwe



Zochita za ophunzitsa:

1) Gogomezani ma phindu

Nyemba zouma zingasungidwe kufikila myezi yokwanila 8. Mugasunge mayani ya nyemba pakuikako manzi a muchele ndi kuumika kuti yakadyedwe kusongolo pa nthawai yomwe ndiwo zamasamba zivuta.

2) Kambilanani pa chithunzi-thunzi

1. Nyemba zouma

(Mukapepeta nyemba, ziumikeni pa zuwa koma onetsetsani kuti zisankhale pa zuwa kwa nthawi yaitali chifukwa zingankhale ndi dothi kapena kung'ambika)

2. Sebenzesani choikamo chosalowetsa mphepo

(Sungani nyemba mu zosungilamo **zaunkhondo komanso zouma**. Mungagwiritse nchito **masaka yomwe ali ndi plastic mukati, zigubu za plastic kapena mabaketi.**)

3) Funsani funso

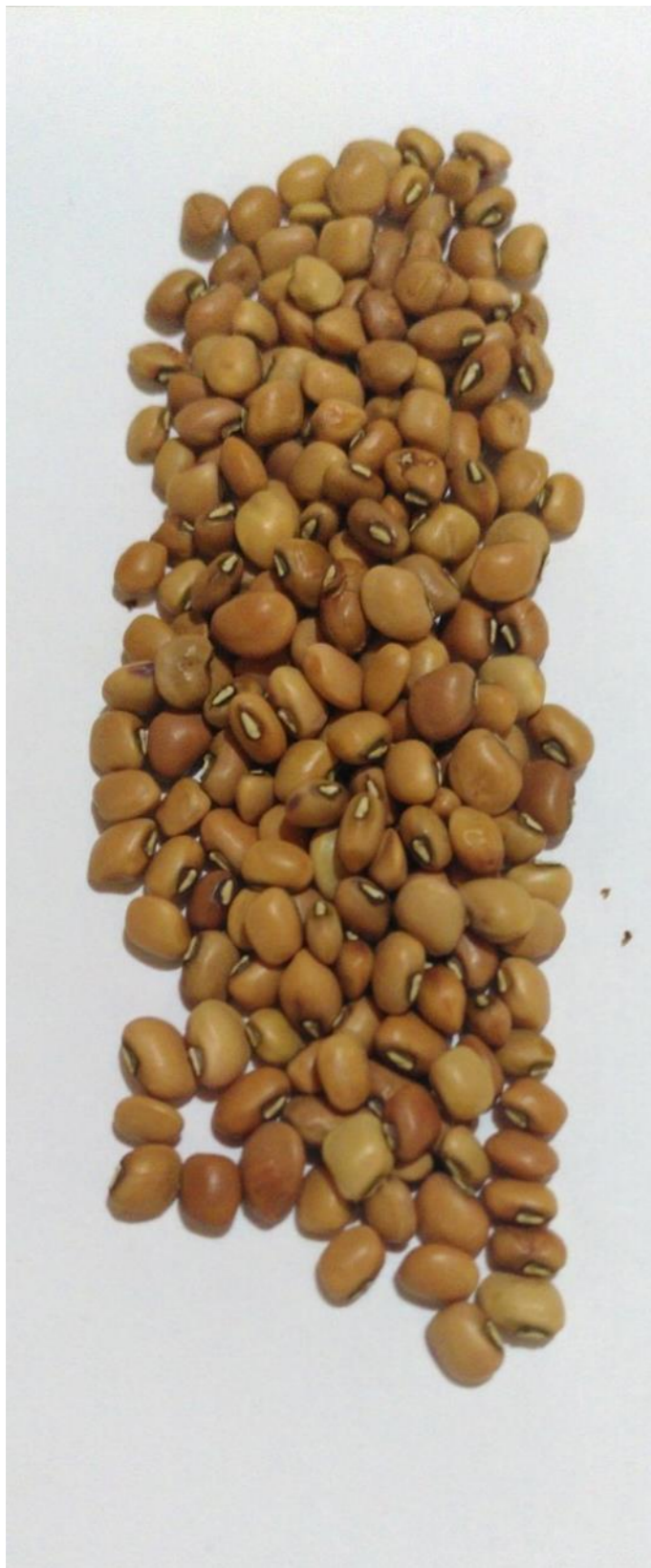


* **Fundo zeni-zeni: Mayeso a muchele**

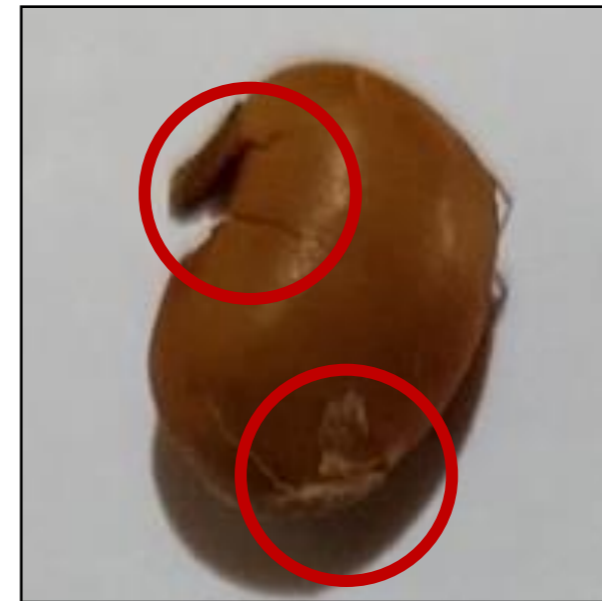
Nyemba zifunika ziumikidwe zikalibe kuikidwa mosungira. Yesani munyontho ndi muchele.

- ⊕ Pofuna kuzindikila kuuma kwa botolo, ikani sipuni imodzi ya muchele mu botole ndip gunduzani muone ngati muchele siuzakhalila mu mbali ya botolo.
- ⊕ Ikani muchele mubotolo monga pa chithunzi choyamba.
- ⊕ Ikani nyemba mu botolo kufikisa pakati
- ⊕ Tsekani botolo, igunduzeni ndi uikhaza kwa nthawi yokwanila 10 minutes.
- ⊕ Onani ngati muchele siuna mamatile mumbali mwa botolo ndiye kuti nyemba zinauma mofikapo. Koma nyemba zosauma zizalengesa muchele kumamatila ku botolo.

NYEMBA: KUBWELEZA KUBYALA MBEU



Pomelera pankhale pooneka



Mbeu isankhale yong'ambika



Isakhale ndi matenda kapena tudoyo

Kusunga mbeu zobwala chaka cha mawa



Sankhani mbeu za bwino zobwala



Sungani mumalo ozizila. Kutentha kungaononge mbeu



Gwiritsani nchito zigumbu zosalowesa mphepo – onetsetsani mbeu yanu mwa pafupi-pafupi

Nyemba: kubweleza kubyala mbeu



Zochita za ophunzitsa

- 1) Gogomezani pa mabvuto oyembekezera mbeu kuchokela ku masitolo (seed suppliers).**
- 2) Longosolani pa chiwelengelo cha mbeu pobwala.**
 - Kodi niunyinji wotani wa nyemba omwe ningakolole mu mbeu zokwanila muyeso wa 2.5kgs?
 - Kodi nifunika kusunga muyeso was mbeu wotani kuti nikabyala nikakolole motele?
- 3) Kambilanani pa njira za bwino zosungila mbeu**
 - Sankhani nyemba zouma mofikapo.
 - Gwiritsani nchito zosungilamo zosalowesa mphepo.
- 4) Kambilanani momwe mungasankhile mbeu zabwino.**
 - Pomelera pafunika kuoneka bwino
 - Nyemba zisakhale zong'ambika
 - Musankhale matenda kapena tudoyo
- 5) Funsani funso**



Fundo zeni-zeni pa: Kasungidwe ka mbeu

Posunga mbeu onetsetsani kuti palibe munyotho ndi kutentha.

Motero:

- ⊕ Yumikakni mbeu mukalibe kuzisunga (gwiritsani n'chito muyeso wa michele)
- ⊕ Sankhani mbeu za bwino kuti zisungidwe nthawi yaitali.
- ⊕ Gwiritsani nchito zosungilamo zosalowesa mphepo zili pamwamba.
- ⊕ Sungani mumalo ozizila
- ⊕ onetsetsani mbeu yanu mwa pafupi-pafupi ndipo chotsani mbeu zili ndi tudoyo ndi matenda

KUYESA KAMEREDWE KA MBEU



- Byalani mbeu makumi khumi (10x10)
- Mbeu imodzo pa dzenje limodzi
- Dzenje lililonse lilowe 2cm pansi
- Pakati pa mayenje pankhale 2-5cm kufika painzake

- Fochelani mbeu ndi muchenga
- Thililani mofikapo koma mosapitilila muyeso
- Onetsetsani kuti mbeu sizidyewa ndi ziweto.

- Onani mbeu yanu patapita sabata inodzi
- Welengani uyinji wa mbeu zomera kuti mudziwe mbeu zomwe zamerapo pa zomwe muna byala

Kuyesa kamededwe ka mbeu



Zochita za ophunzitsa:

1) Chifukwa nichani tifunika kuyesa kamededwe ka mbeu?

- Kathandiza kudziwa ubwino wa mbeu maka-maka unyinji wa kamededwe (chifukwa ubweleza kubyaala kuononga ndalama ndi nthawi)
- 1) Kathandiza kupewa kukolola zochepa (Kamededwe ka mbeu kaunikila makolledwe— mwachisanzo mbeu zikamela 60 pali 100 (60%) ndiye kuti sizili bwino kweni-kweni kukakoleledwe)
- 2) Gwiritsani unyinji wa mbeu kulingana ndi munda omwe muzalimapo – musabyale mbeu zambiri koma byalani zolingana ndi ukulu wa munda
- 3) Ngati mbeu sizinamele bwino pa mayeso, nkhalani okozekela kuti mubyale mbeu zina

2) Kodi mayeso aku byala mbeu timachita nthawi yotani?

Kuyesa kamededwe ka mbeu kufunika kuchitika mwezi umodzi nthawi yobyala mu munda isanafike kuti mukhale okozekela kubyaala mbeu zina ngati mbeu sizinamele bwino pa mayeso

3) Kodi mayeso ya kabyalidwe ka mbeu yachitika motani? (Longotsolani za chithunzi-thunzi)

Munga gwiritse nchito malo otetezedwa mu munthunzi kapena chigumbu chobooka konkhalila kuti madzi akazichoka pothilila. Byalani mbeu makumi khumi mu mayenje (10 holes x 10 lines). Mayenje afunika 2cm pansu pa mupata 2cm. Tengani mbeu momwe munasungilamo mosasankha ndi kubyaala. Fochelani mbeu ndi mchenga ndi kuthulira mofikapo. Onetsetsani kuti mbeu sizidyewa ndi ziweto. Onani mbeu yanu ngati zayamba kumela patapita sabata inodzi. Welengani unyinji wa mbeu zomera kuti mudziwe mbeu zomwe zamerapo pa zomwe muna byala musabata yachiwiri, mwachisanzo mbeu zikamela 60 pali 100 (60%).

4) Mayeso akamededwa yambeu athantauza chiani?

Unyinji wa mbeu zomela pa mayeso zifunika kupitilila zili 80 pa mbeu 100 zobyalidwa. Koma ngati zomela yachelela 80, ndiye kuti mbeu sili bwino. Nkhalani okozeka kugula mbeu zosindikidwa (certified seed).

5) Funsani mafunso



Mbeu zamu Makoko: Ulimi wa Nyemba

Buku la alimi ndi aphunzitsi

(Chifukwa, Kuti, Chiani, Liti ndipo Motani)



EAT HEALTHY
EAT DIVERSE
EAT DIFFERENT
FOOD GROUPS

Losindikizidwa ndi:

Food and Nutrition Security, Enhanced Resilience Project Zambia
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
No. 5, Chaholi Road, Rhodes Park
Private Bag RW 37X
Lusaka, Zambia

Bukuli linalembedwa ndi thandizo lochokela ku:

Federal Ministry for Economic Cooperation and Development (BMZ) Germany

Othandizila:

Ministry of Agriculture

Mr. Nawa Malumo, Mr. Katupa Chongo

GIZ

Ricarda Schwarz, Richard Lilamono, William Chipeta, Theresa Kinkese,
Mwazanji Thornicroft Phiri, Dennis Lohmann

Komwe zinachokela fundo

The Better Life Book, COMACO, 2018; Beans Production Guide, ZARI, 2018;
Product Varieties, ZAMSEED, 2018

Zithunzi-thunzi

Francis Smeins

Okonza

GIZ

Mapangidwe

PJ Holdings, Chipata

