

Ubumenyi n'Ikoranabuhanga Riciriritse

Umwaka wa kabiri w'amashuri abanza

Igitabo cy'umunyeshuri

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Guteza Imbere Uburezi mu Rwanda (REB).

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Intangiriro

Munyeshuri,

Iki gitabo cy'Ubumenyi n'Ikoranabuhanga Riciriritse ni icyawe. Ni igitabo cya kabiri mu bitabo bitandatu uzakoresha mu mashuri abanza, bikazagufasha kugira ubumenyi bw'ibanke bwerekanye n'ibidukikije (ibihumeka n'ibidahumeka).

Ibyo uziga muri iri somo ry'ubumenyi, n'ikoranabuhanga riciriritse bikubiye mu mitwe umunani: (1) Ibikoresho biboneka ku ishuri no mu rugo; (2) Ibikinisho, ibikoresho binyuranye n'imfashanyigisho; (3) Inshuti yanje mudasobwa; (4) Umwuka n'umuyaga; (5) Ubutaka; (6) Ibimera; (7) Urumuri n'ubushyuhe; (8) Ibyumviro.

Buri mutwe ukwerekwa ibikorwa uzakora, hari ibyo uzakora wenyine, hakaba n'ibindi uzakora ufatanije n'abandi. Mu kwiga kwawe, uzite cyane ku kuganira n'abandi, ubaze ibyo udasobanukiwe, kandi buri gikorwa usabwe gukora ujye ugikorana umwete.

Buri kigwa gitangije ikibazo ugomba gutekerezaho cyane. Icyo kibazo ni cyo zingiro ry'ibyo ugomba kwiga. Nyuma y'ikibazo, hari ibikorwa uzakora kugirango ubashe gusubiza icyo kibazo. Nyuma y'ibikorwa hari amashusho azagufasha mugusubiza ibibazo cyangwa gukora ibikorwa biteganijwe.

Uzasabwa gukora amagerageza atandukanye kugira ngo ubashe kugera ku nt ego z'isomo. Ayo magerageza azagufasha kuvumbura ibyo uzaba ukeneye kwiga. Aya magerageza

ushobora kandi kuyakora wenyine cyangwa se uri kumwe na bagenzi bawe.

Bagenzi bawe bafite ubumuga butandukanye, uzagerageze kubafasha uko ushoboye kugira ngo mwigane kandi mwuzuzanya.

Iki gitabo ugomba kugisoma. Bakuru bawe, ababyeyi cyangwa abaturanyi, bazagufashe gusobanukirwa no kunoza ibikorwa bikirimo. Ikibazo cya nyuma kuri buri kigwa (mvumbuye iki muri iri somo?) kiragukangurira kwisuzuma ku byo wize. Kugisubiza neza biguha ikizere ku myigire ntamakemwa yawe.

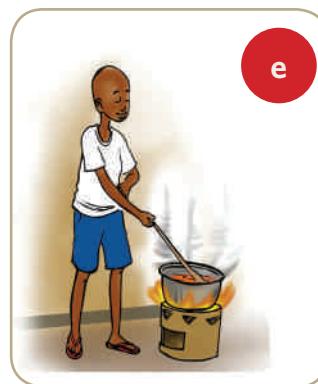
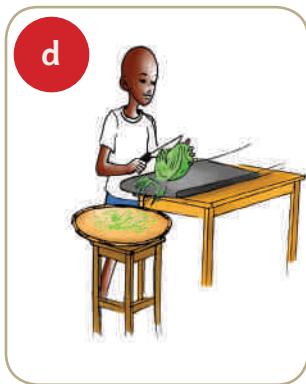
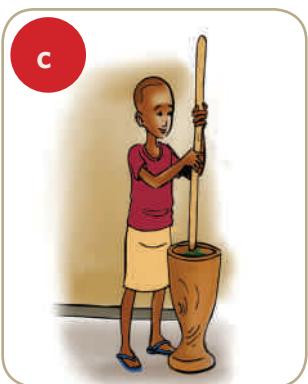
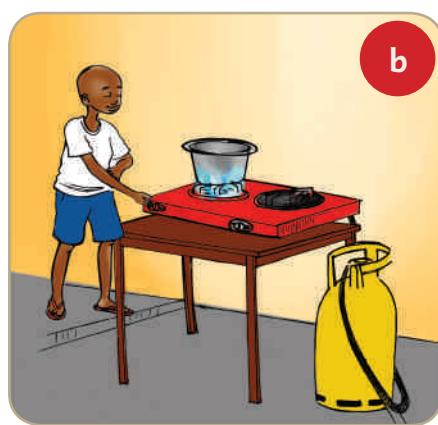
Ibikoresho byo mu rugo no ku ishuri

Igihe kinini cy'ubuzima bwawe ukimara ku ishuri no mu rugo. Ukenera ibikoresho binyuranye mu mirimo ikugomba. Birakwiye ko umenya buri gikoresho cyo murugo no ku ishuri, umumaro wacyo mu buzima bwa buri munsi n'uburyo bwo kugikoresha, kugisukura no kukibika neza.

1.1 Ibikoresho dusanga mu rugo bimaze iki?

Igikorwa cya 1

1. Itegereze amashusho akurikira (**a, b, c, d, e na f**)
2. Rondora amazina y'ibikoresho biri kuri aya mashusho. Ibyo bikoresho biri gukoreshwa iki?
3. Ibikoresho udasanzwe uzi kuri ibyo bishushanyo ni ibihe? Bikoreshwa iki?
4. Koresha isekuru maze usekure amasaka y' igikoma.



Uvumbuye iki muri iri somo?

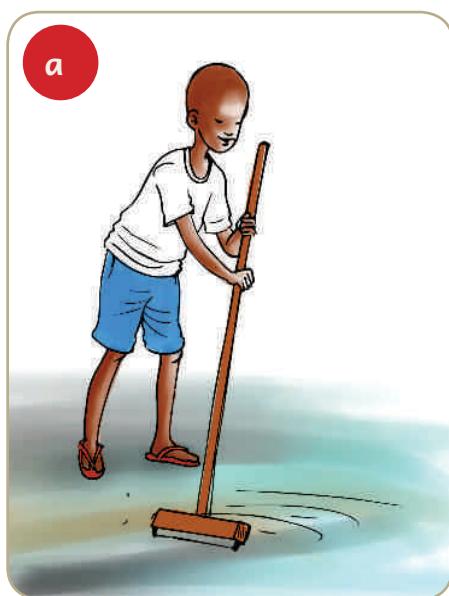
Mvumbuye ko

- **Amasahani** ari ibikoresho byo kuriraho;
- **Amasafuriya, inkono** ari ibikoresho byo gutekamo;
- **Amakanya, ibiyiko** ari ibikoresho byo kurisha;
- **Ibikombe** ari ibikoresho byo kunywesha;
- **Ibisorori** ari ibikoresho byo gushyiramo ibyo kurya;
- **Isekuru n'umuhini** ari ibikoresho byo gusekura;
- **Imbabura n'iziko rya kijyambere** ari ibikoresho byo gutekaho.

Igikorwa cya 2

1. Itegereze aya mashusho akurikira (**a**, **b** na **c**)
2. Sobanura akamaro k'ibikoresho biri kuri aya mashusho.

a



b



c



Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Umwego**ukoreshwa mu gukubura mu nzu no hanze yayo;
- **Igitebo** kijugunywamo imyanda bakubuye/batoraguye;
- **Umukoropesho** ufasha gusukura hasi kuri sima twifashishije amazi;
- **Udutambaro tw'isuku** duhanagura ibirahure by'amadirishya n'inzugi cyangwa ibyombo;
- **Isabune** ikoreshwa basukura ibikoresho byo mu rugo cyangwa gukaraba hifashishijwe amazi.

Igikorwa cya 3

1. Itegereze amashusho akurikira (**a, b, c na d**)
2. Ni hehe ibikoresho biri ku mashusho akurikira bikoreshw?
3. Sobanura akamaro k'ibikoresho biri kuri ayo mashusho (**a, b, c na d**)



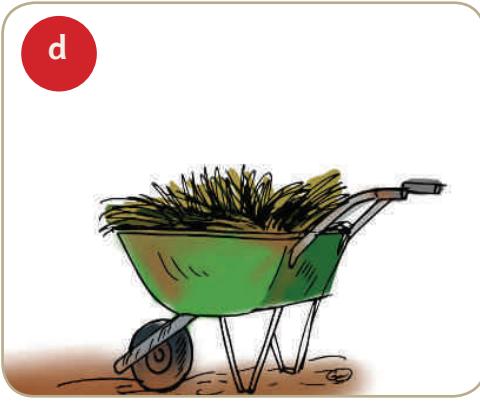
a



b



c



d

Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Isuka** ikoreshwa mu guhinga ubutaka;
- **Majagu** ari isuka ifite amenyo. Ikoreshwa mu guhinga ubutaka bukomeye cyane;
- **Ipiki** ikoreshwa mu gucukura ahantu harimo amabuye;
- **Incyamuro** ari agasuka gato gakoreshwa mu gutera imyaka nk'ibishyimbo;
- **Ingorofani** ikoreshwa mu gutunda ibishingwe/imyanda cyangwa imyaka.

Igikorwa cya 4

1. Itegereze amashusho akurikira (**a, b, c na d**)
2. Ni hehe ibikoresho biri ku mashusho akurikira bikoreshwa?
3. Sobananura akamaro k'ibikoresho biri ku mashusho akurikira (**a, b, c,na d**)



Uvumbuye iki muri iri somo?

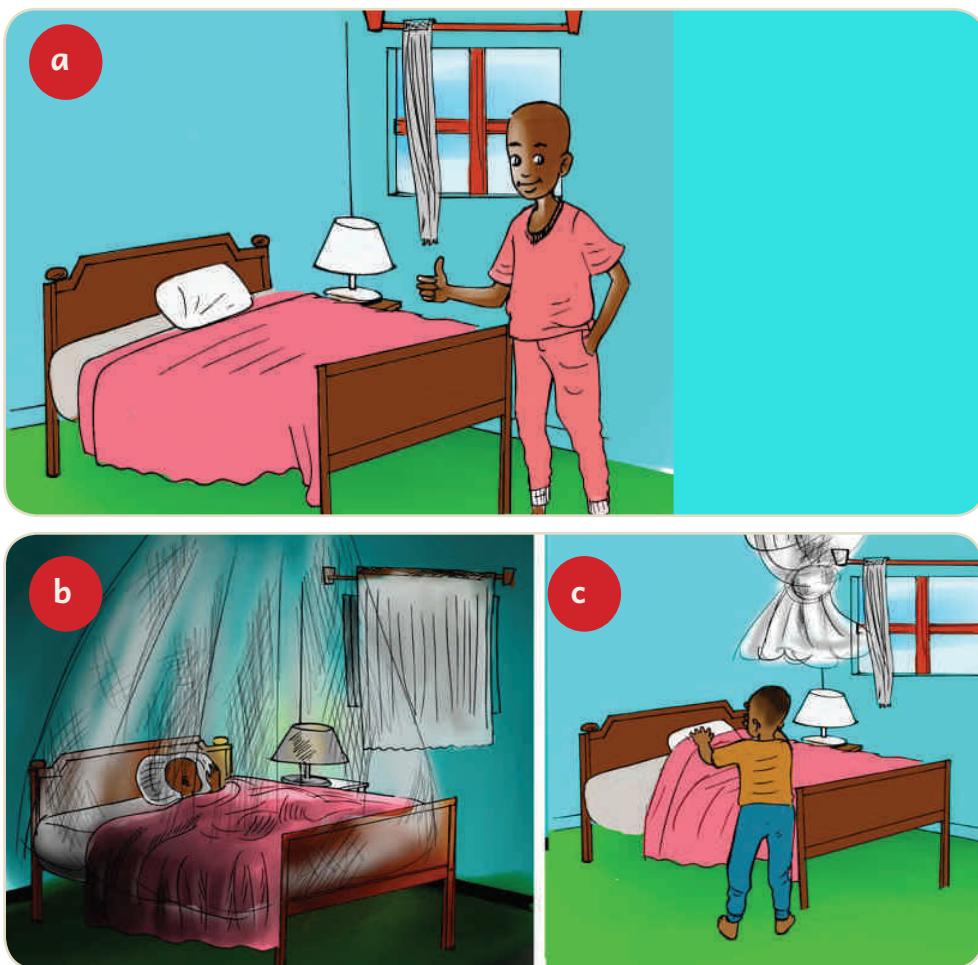
Mvumbuye ko

- **Akabati** kabikwamo ibikoresho bitandukanye: amasahane, ibisorori, imyenda, ibitabo, n'ibindi bikoresho;
- **Inkangara** ibikwamo ibyo kurya/imyaka bidatetse (ibishyimbo, amasaka, ibigori....);

- **Ibyibo** bibikwamo ibyo kurya/imyaka bidatetse (ibishyimbo, amasaka, ibigori, ...) cyangwa utundi dukoresho two mu rugo dutoya (uducupa tw'amavuta yo kwisiga, ibisokozo, ...);
- **Firigo** ibika ibyo kurya/kunywa ku bukonje bwhariye.

Igikorwa cya 5

1. Itegerez aya mashusho akurikira (**a**, **b** na **c**)
2. Sobanura akamaro k'ibikoresho biri kuri aya mashusho akurikira.



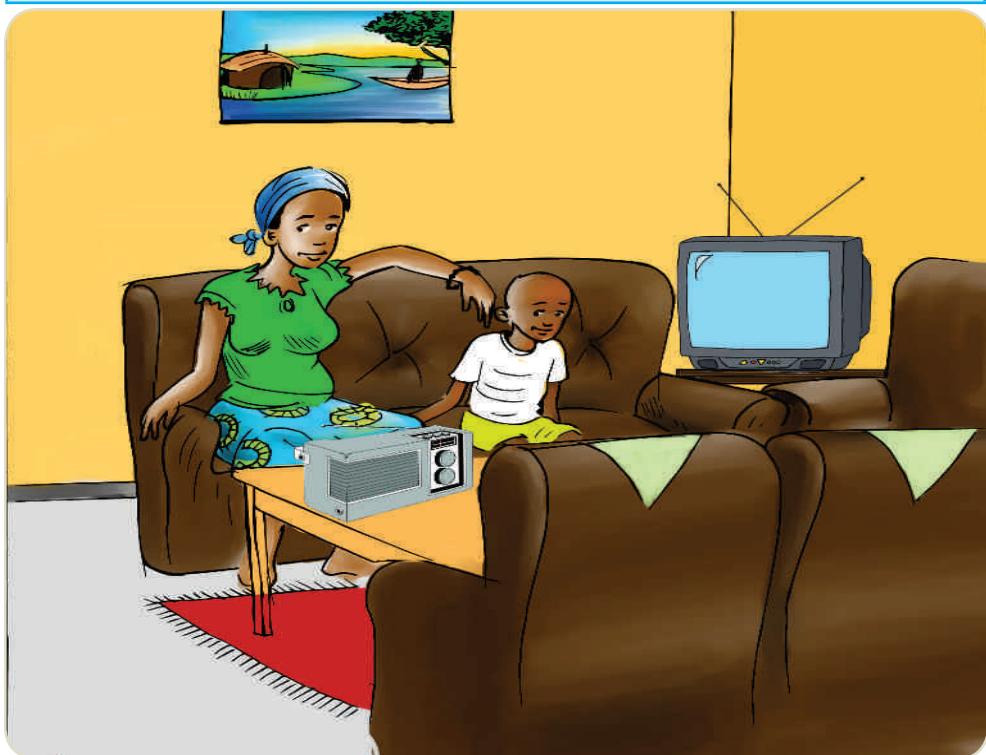
Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Igitanda** ari igikoresho cyo kuryamaho;
- **Inzitiramibu** itwikira igitanda, ikarinda uryamye imibu n'utundi dusimba kumurya;
- **Igodora** ari igikoresho cyo ku gitanda baryamaho;
- **Amashuka** ari ibitambaro basasa ku igodora bakaryamamo;
- **Ikiringiti** ari igikoresho biyorosa kikarinda imbeho igihe umuntu aryamye;

Igikorwa cya 6

1. Itegereze iyi shusho ikurikira
2. Sobanura akamaro k'ibikoresho biri kuri iyi shusho ikurikira.



Uvumbuye iki muri iri somo?

Mvumbuye ko

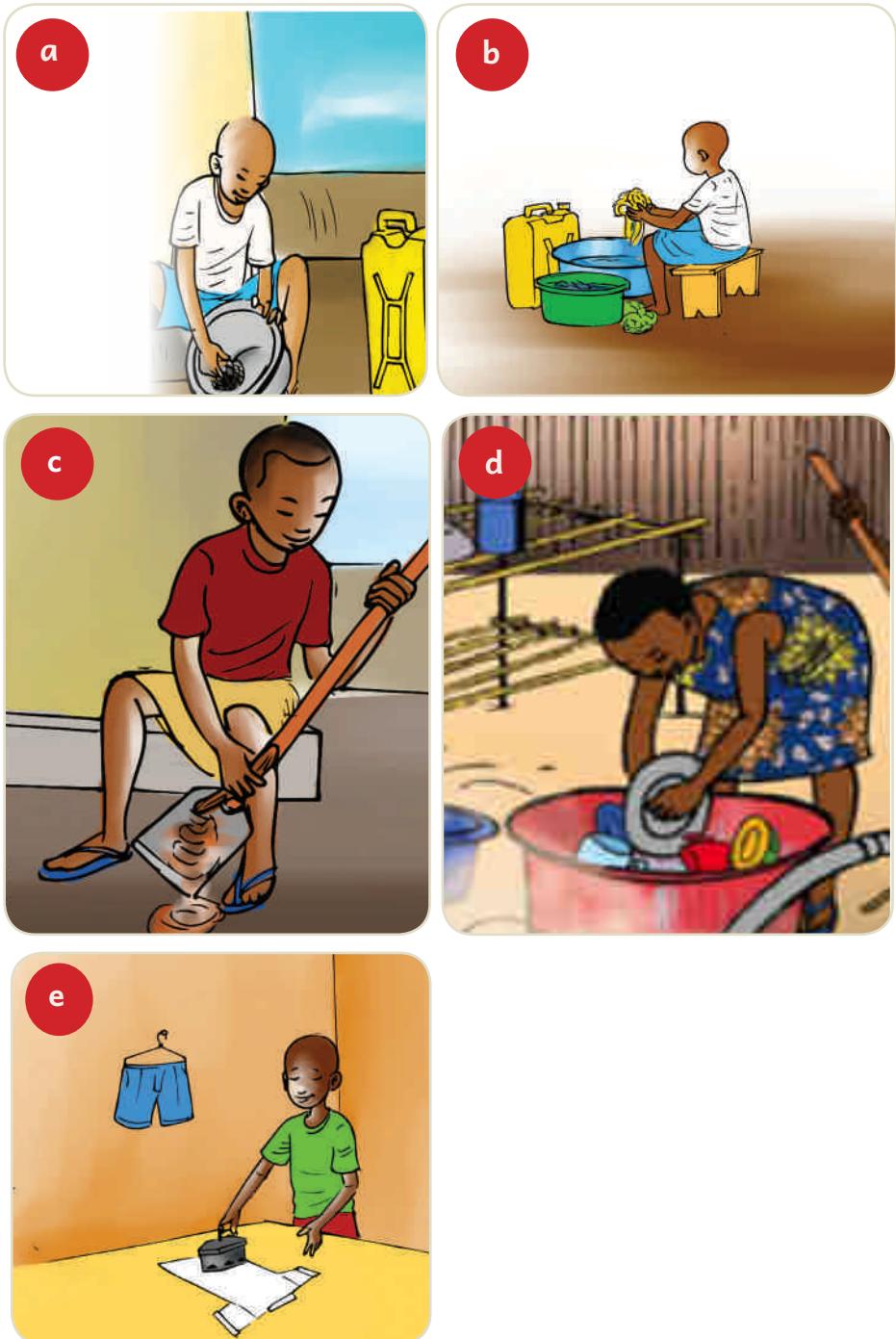
- **Intebe** zo mu ruganiriro ni izo kwicaramo;
- **Ameza** yo mu ruganiriro ni ayo guterekaho ibikoresho byo mu ruganiriro;
- **Televiziyo** ari igikoresho cyo kureberaho amakuru cyangwa filime n'imiziki;
- **Iradiyo** ari igikoresho cyo gutangaza amakuru ku bantu bicaye mu ruganiriro;
- **Umukeka/tapi** ni igikoresho cy'umutako mu cyumba cy'uruganiriro.

1.2

Ni gute twafata neza ibikoresho byo mu rugo?

Igikorwa cya 1

1. Itegerezze aya mashusho akurikira (**a, b, c, d na e**)
2. Ni ibihe bikoresho bigaragara kuri ayo mashusho biri gusukurwa?
3. Sobanura uburyo wasukura ibikoresho byo mu rugo wabonye mu masomo abanza.
4. Oza/sukura amasahane n'ibiyiko byakoreshejwe wavanye mu rugo iwanyu.
5. Ni iyihe mpanvu dukora isuku mu rugo?



**Uvumbuye iki muri iri somo?
Ushoboye iki nyuma yiri somo?**

Mvumbuye ko

- Uburyo bwo gufata neza ibikoresho byo mu rugo ari: kubyoz; kubihanagura; kubimesa; kubisiga amavuta; gutera ipasi/kugorora imyenda
- Nshoboye gufata neza no gusukura ibikoresho bikoreshwa mu rugo kandi nkabibika neza ahantu hasukuye.

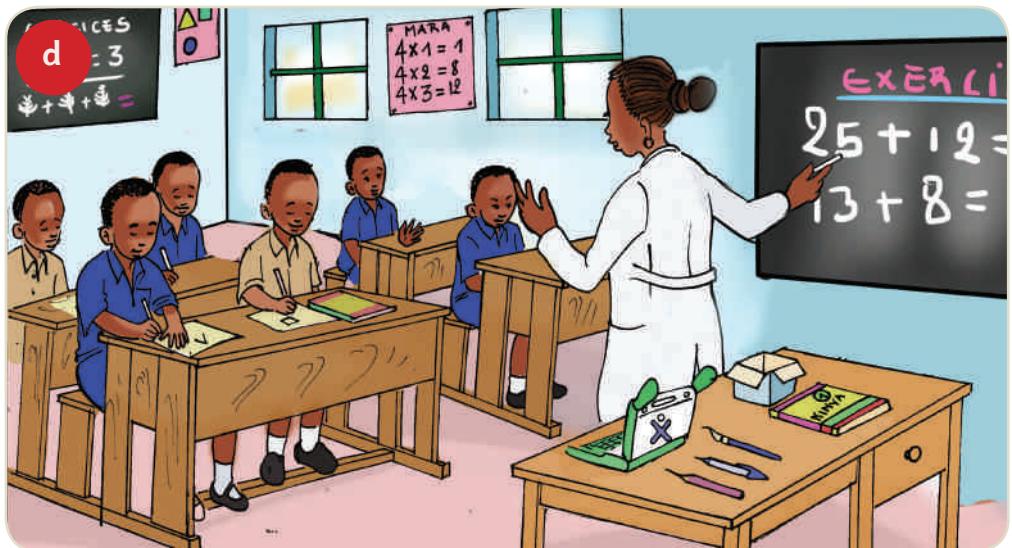
1.3

Ibikoresho dusanga ku ishuri bimaze iki?

Igikorwa cya 1

- Itegereze amashusho akurikira hasi (**a, b, c na d**)
- Ni ibihe bikoresho ubona ku mashusho akurikira hasi? Ibyo bikoresho bimaze iki?
- Muri ibyo bikoresho biri ku mashusho ni ibihe udasanzwe uzi? Biri gukoreshwa iki?





Uvumbuye iki muri iri somo?

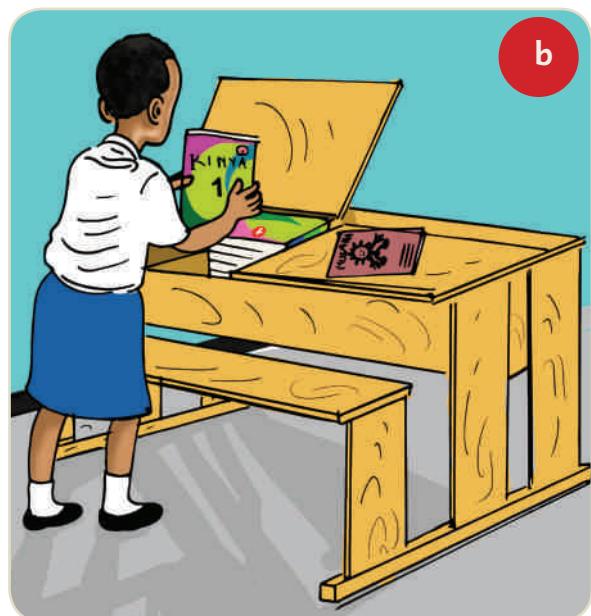
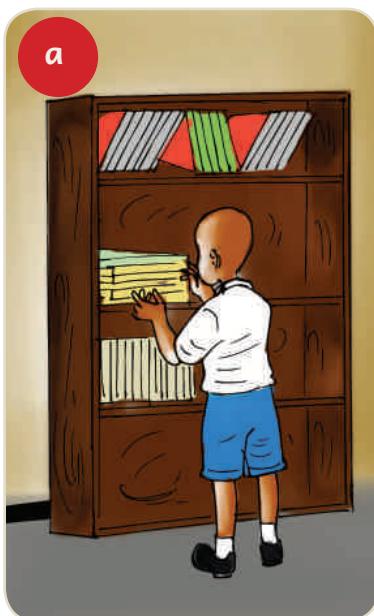
Mvumbuye ko

- **Ikaye** ari igikoresho bandikamo bakoresheje ikaramu;
- **Urupapuro** ari igikoresho bandikaho bakoresheje ikaramu;
- **Urubaho** ari igikoresho bandikaho bakoresheje itushi;
- **Ikibaho** ari igikoresho bandikaho bakoresheje ingwa;

- **Ikaramu** ari igikoresho cyo kwandikisha ku rupapuro cyangwa mu ikaye;
- **Itushi** ari igikoresho cyo kwandikisha ku rubaho;
- **Ikaramu y'igit** ari igikoresho cyo gushushanyisha;
- **Ikaramu y'igit y'ibara** ari igikoresho cyo gushushanyisha bashyiramo amabara;
- **Ingwa** ari igikoresho cyo kwandikisha ku kibaho.

Igikorwa cya 2

1. Itegereze aya mashusho akurikira (**a** na **b**).
2. Sobanura akamaro k'ibikoresho bigaragara ku mashusho akurikira.



Uvumbuye iki muri iri somo?

Mvumbuye ko

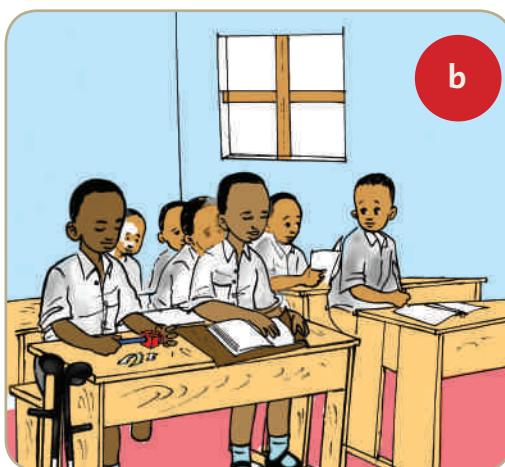
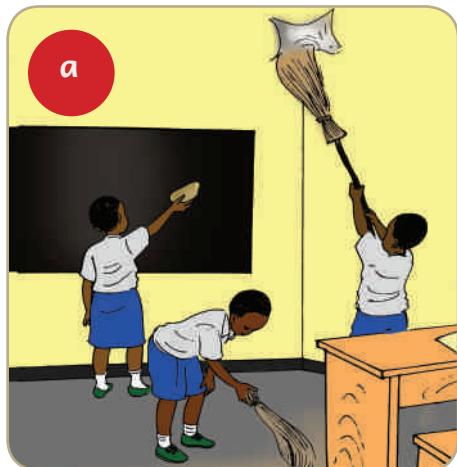
- **Akabati** ari igikoresho kibikwamo ibikoresho byo ku ishuri (ibitabo, agacamurongo, inguni n'ibindi);
- **Igikapu cy'umunyeshuri** ari igikoresho umunyenshuri abikamo/atwaramo ibikoresho bye by'ishuri;
- **Intebe y'umunyeshuri** ari igikoresho umunyeshuri yicaraho akanabikamo ibikoresho akenera mu isomo.

1.4

Ni gute twafata neza ibikoresho dusanga ku ishuri?

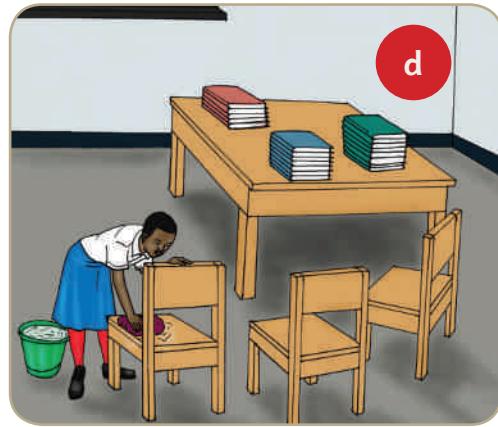
Igorwa

1. Itegereze aya mashusho (**a, b, c na d**)
2. Abanyeshuri ubona ku mashusho bari gukora iki? Sobanura.
3. Sukura ishuri ryawe, ikibaho, ameza ndetse n'intebe wicaraho.
4. Funika amakaye yawe yose.
5. Sukura neza intebe wicaraho mu ishuri.





c



d

**Uvumbuye iki muri iri somo?
Ushoboye iki nyuma y'iri somo?**

Mvumbuye ko

- Uburyo bwo gufata neza ibikoresho byo ku ishuri ari ubu bukurikira:
 - Kubyoza;
 - Kubihanagura;
 - Gufunika ibitabo cyangwa amakayi;
 - Guconga neza ikaramu y'igitu ukoresheje agaongakaramu y'igitu
 - Gupfundikira ikaramu igihe itari gukoreshwa.
- Nshoboye gufata neza no gusukura ibikoresho bikoreshwa ku ishuri no kubibika neza mbirinda kwangirika.

Isuzumabushobozzi

1. Huza ibikoresho bikurikira n'umumaro wabyo

	Igikoresho	Umumaro wacyo	Aho gikoreshwa
a)	Ikaramu 	Kuriraho	Mu rugo
b)	Isahane 	Gusekura isombe	
c)	Intebe y'umunyeshuri 	Kwicaraho	
d)	Isekuru 	Gutekaho	
e)	Firigo 	Kwandikisha	Ku ishuri
f)	Ishyiga rya canarumwe 	Kubika ibiribwa	

2. Sukura ibikoresho bikurikira
 - a) Funika ikaye yawe
 - b) Oza isahane ukoreshheje isabune n'amazi
 - c) Mesa neza umuswari wawe
3. Imbere ya buri nteruro, andikaho "NIBYO" cyangwa "SIBYO":
 - a) Ikarita imanitse mu ishuri iyo igiyeho ivumbi, ndayimanura maze nkayogesha amazi n'isabune maze nkayumutsa.
 - b) Ibitabo byashaje turabijugunya cyangwa tukabitwika kuko biba byanduye cyane.
 - c) Mu gusukura isuka ngomba kubanza nkayoza n'amazi menshi, narangiza nkayumutsa nkayibika yumutse kugirango nyirinde umugese.

UMUTWE WA 2

Ibikinisho, ibikoresho binyuranye n'impashanyigisho

Uyu mutwe uraguha ubushobozzi bwo kwikorera ibikinisho n'impashanyigisho waguraga mu maduka. Ibyo bikoresho uzabikenera mu buzima bwawe bwa buri munsi, mu mikino ndetse no mu masomo wiga.

2.1 Ni gute wakora inyoni mu rupapuro?

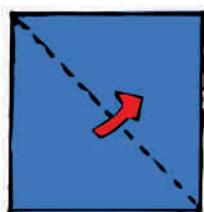
Igikorwa cya 1

1. Itegerezze aya mashusho
2. Fata urupapuro rwakoreshejwe utagikeneye rufite byibura uruhande rwa cm 20.
3. Kata urwo rupapuro ku buryo impande zarwo enye zingana (ikitonderwa: mu gukata urupapuro, irinde kuba wakwikomeretsa).
4. Zinga urwo rupapuro ukoremo inyoni nk'uko bigaragara ku gishushanyo, ukurikiza intambwe zose zatanzwe uko ari 14.
5. Gurutsa mu busitani bw'ishuri, igikinisho kimeze nk'inyoni wakoze.

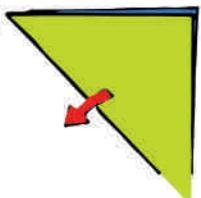
Ibikoresho: umukasi, urupapuro



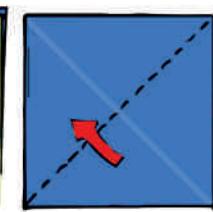
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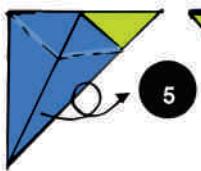
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4



5



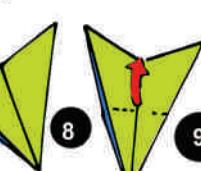
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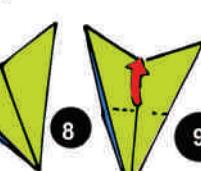
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8



9



10



11



12



13



14



Ushoboye iki nyuma y'iri somo?

Nshoboye gukora agakinisho kameze nk'inyoni mu rupapuro nkurikije intambwe zatanzwe mu gitabo.

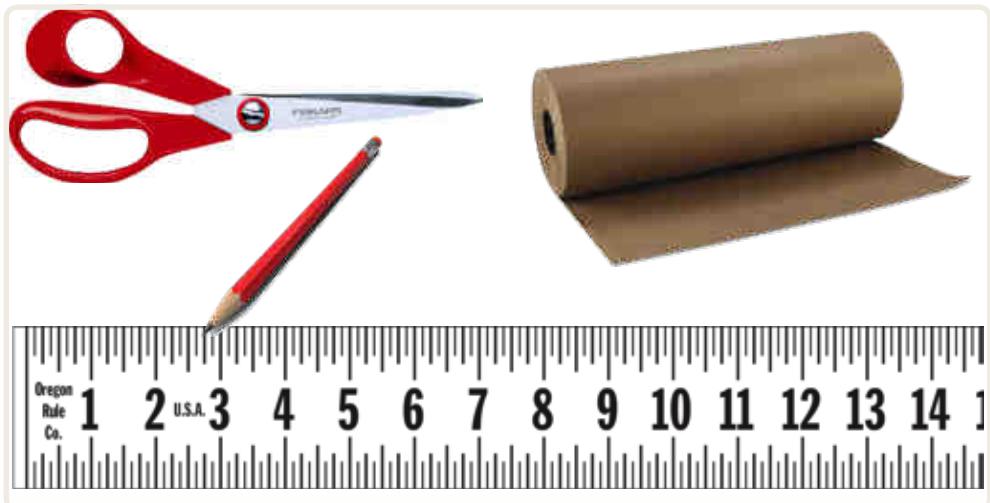
2.2

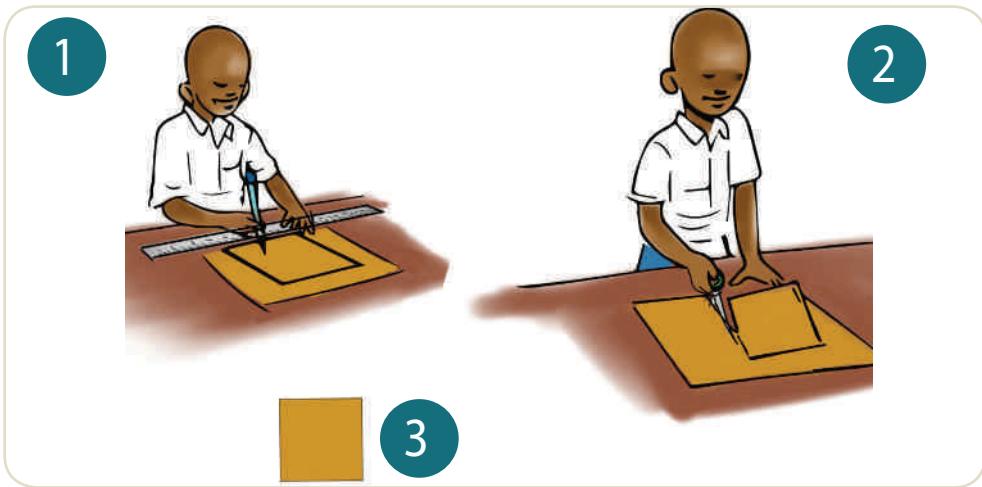
Ni gute wakora kare n'urukiramende mu rupapuro?

Igikorwa cya 2

1. Itegerezze aya mashusho (1, 2 na 3)
2. Fata urupapuro rufite byibura uruhande rwa cm 10.
3. Shushanya kuri urwo rupapuro ikinyampande enye gifite imfuruka zigororotse, kandi buri ruhande rungana na cm 5.
4. Kata urwo rupapuro ukoresheje umukasi ukurikije umuzenguruko w'icyo kinyampande enye (**Ikitonderwa**: *mu gukata urupapuro, irinde kuba wakwikomeretsa*).
5. Ongera ufate urupapuro rufite byibura uruhande rwa cm 10.
6. Shushanya kuri urwo rupapuro ikinyampande enye gifite imfuruka zigororotse, gifite impande ebyiri ziteganye zingana (cm 5 na cm 8)
7. Kata urwo rupapuro ukoresheje umukasi ukurikije umuzenguruko w'icyo kinyampande.

Ibikoresho: urupapuro, umukasi, agacamurongo n'ikaramu





Ushoboye iki nyuma y'iri somo?

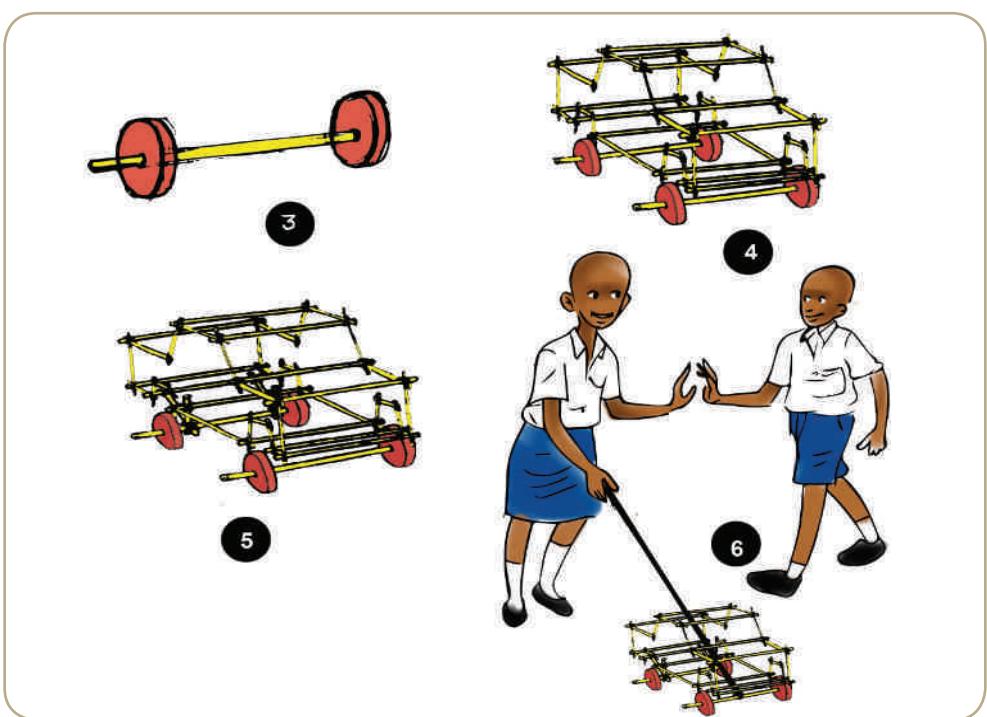
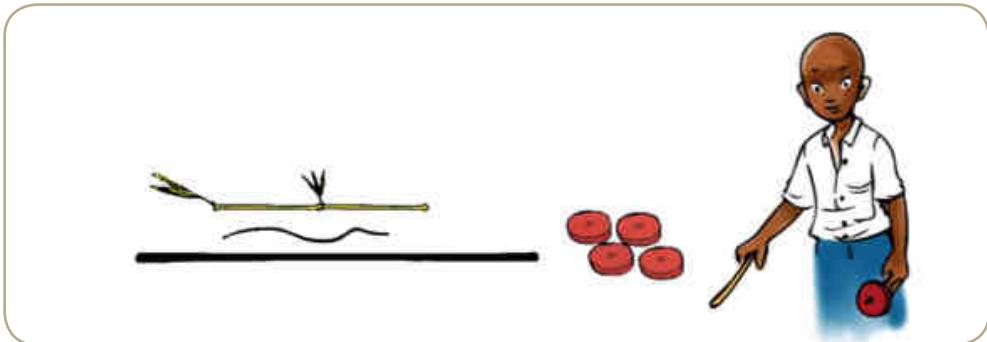
Nshoboye gukora ibinyampande enye (kare n'urukiramende) mu rupapuro nkurikije intambwe zatanzwe mu gitabo.

2.3 Ni gute wakora imodoka mu bikenyeri?

Igikorwa cya 3

1. Itegereze amashusho ari hasi (**1, 2, 3, 4, 5, na 6**)
2. Egeranya ibikoresho uri bukenere (ibikenyeri, icyuma, utugozi, uduti dukomeye, udufuniko tw'amacupa, agasumari, agati karekare).
3. Kata (vuna) ibikenyeri maze ubiteranye ukurikije intambwe zatanzwe mu gitabo zo gukora imodoka. (**Ikitonderwa**: *mu gukata no gukongora ibikenyeri, irinde kuba wakwikomeretsa.*)
4. Gendesha iyo modoka wakoze. Ese amapine yayo arikaraga?

Ibikoresho: ibikenyeri, icyuma, uduti dukomeye, udufuniko tw'amacupa, udusumari.



Ushoboye iki nyuma y'iri somo?

Nshoboye gukora agakinisho kameze nk'imodoka mu bikenyeri n'uduti dukomeye nkurikije intambwe zatanzwe mu gitabo.

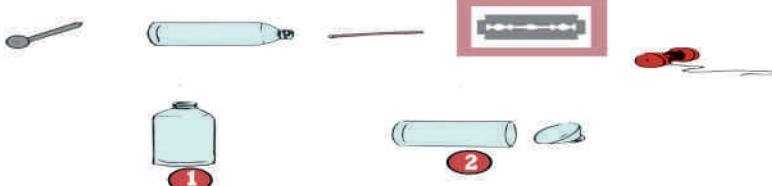
2.4

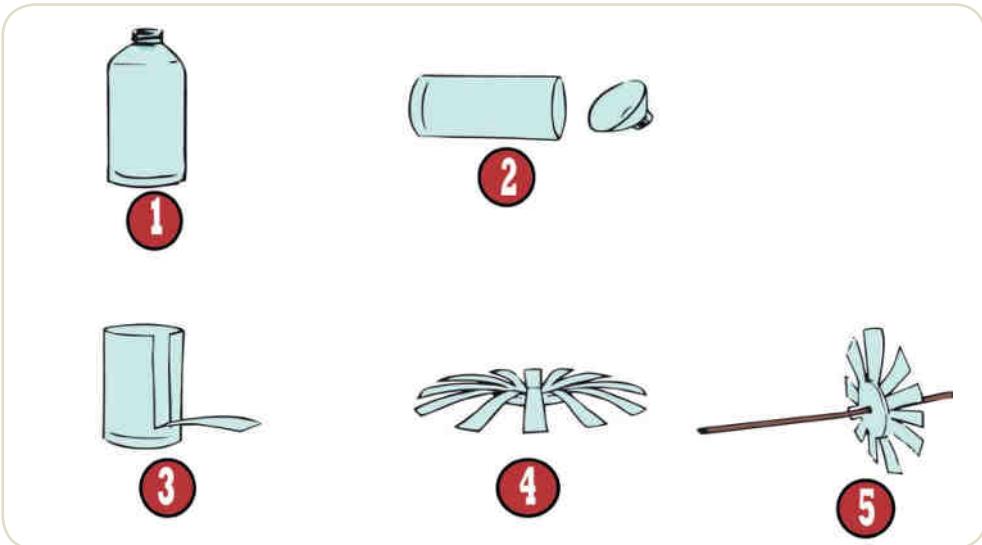
Ni gute wakora agakinisho kaguruka budege mu icupa rya purasitike ririmo ubusa?

Igikorwa cya 4

1. Itegerezze amashusho ari hasi (1, 2, 3, 4 na 5)
2. Egeranya ibikoresho uri bukenere (urwembe, icupa rya purasitike ririmo ubusa, agati karekare/agasinga, agasumari ko gutoboza).
3. Kata icupa rya purasitike ririmo ubusa wifashishije urwembe, ukurikize intambwe ziri ku mashusho maze ushyiremo agati ko gufata ugurutsa icyo gikinisho. (**Ikitonderwa:** mu gukata icupa rya purasitike, irinde kuba wakwikomeretsa.)
4. Gurutsa igikinisho wakoze.

Ibikoresho: urwembe, icupa rya purasitike ririmo ubusa, agati karekare/agasinga, agasumari ko gutobora.





Ushoboye iki nyuma y'iri somo?

Nshoboye gukora agakinisho kaguruka budege mu icupa rya parasitike rrimo ubusa nkurikije intambwe zatanzwe mu gitabo.

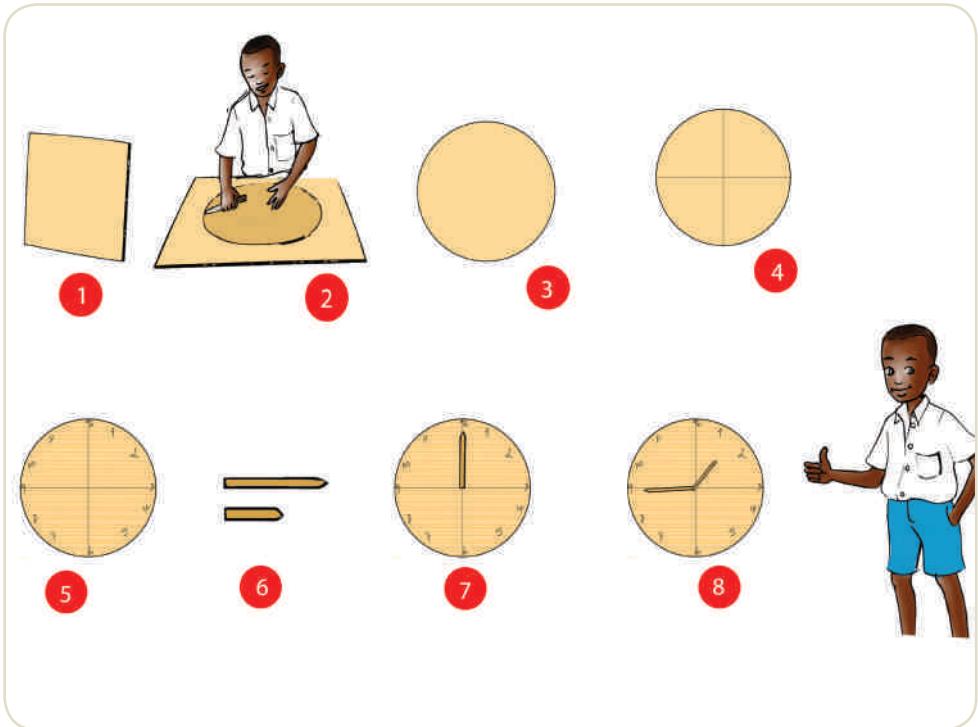
2.5

Ni gute wakora mu bikarito isaha yo kumanika mu ishuri?

Igikorwa cya 5

1. Itegereze amashusho ari hasi (1, 2, 3, 4, 5, 6, 7 na 8)
2. Egeranya ibikoresho uri bukenere (umukasi, igikarito, agati gakomeye/agasumari, ikaramu, urupapuro rukomeye, agacaruziga).
3. Kata igikarito wifashishiye umukasi, ukurikize intambwe ziri ku mashusho maze ukore isaha y'igikinisho yo kumanika mu ishuri. (**Ikitonderwa:** mu gukata igikarito, irinde kuba wakwikomeretsa.)
4. Gereranya isaha wakoze n'iyo mugenzi wawe yakoze. Inziza ni iyihe?

Ibikoresho: umukasi, igikarito, agati gakomeye/agasumari, ikaramu, urupapuro rukomeye, icyuma.



Ushoboye iki nyuma y'iri somo?

Nshoboye gukora isaha yo kumanika mu ishuri mu bikarito nkurikije intambwe zatanzwe mu gitabo.

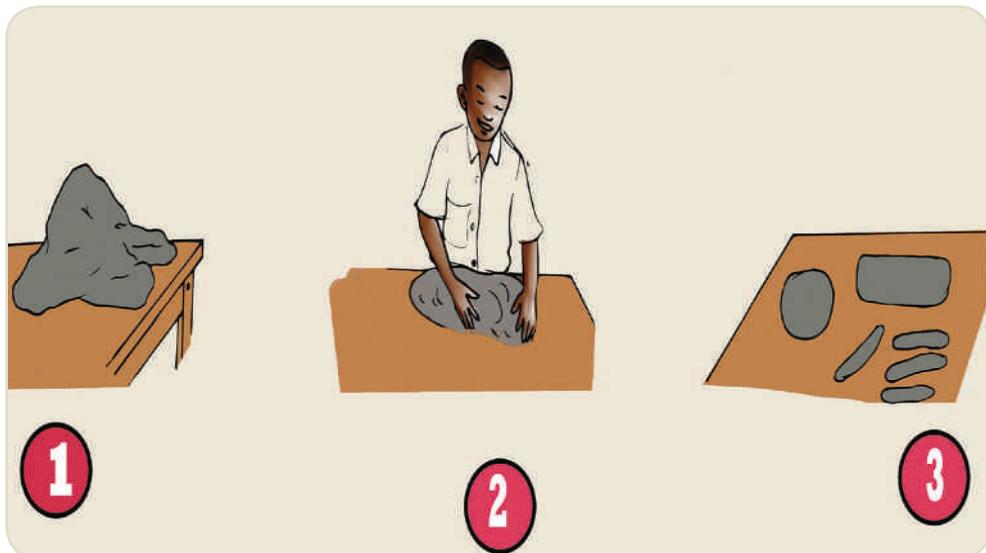
2.6

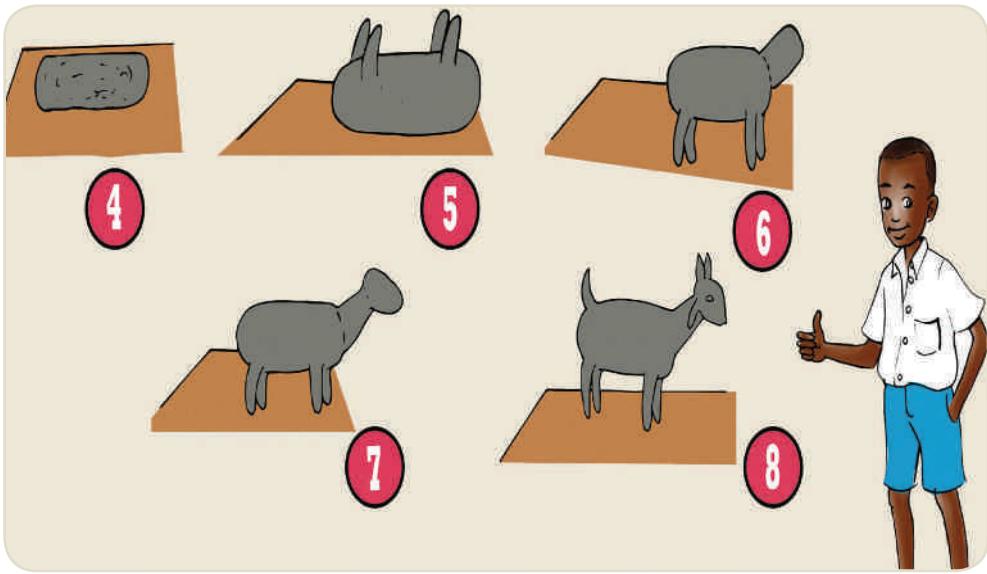
Ni gute wabumba ishusho isa n'ihene mu ibumba?

Igikorwa cya 6

1. Itegereze amashusho ari hasi (**1, 2, 3, 4, 5, 6, 7 na 8**)
2. Tegura ibumba, umucanga muto n'amazi.
3. Vanga ibumba n'umucanga (ibipimo 2 by'ibumba ku gipimo kimwe cy'umucanga mutoya).
4. Kata ibumba urivanga n'umucanga n'amazi kugeza rinoze.
5. Bumba ishusho isa n'ihene mu ibumba ukurikije intambwe zatanzwe ku mashusho ari hasi.
6. Anika iryo shusho ahantu hatagera izuba (kugirango ridasatagurika).

Ibikoresho: ibumba, umucanga muto, amazi.





Ushoboye iki nyuma y'iri somo?

Nshoboye kubumba ishusho isa n'ihene mu ibumba nkurikije intambwe zatanzwe mu gitabo.

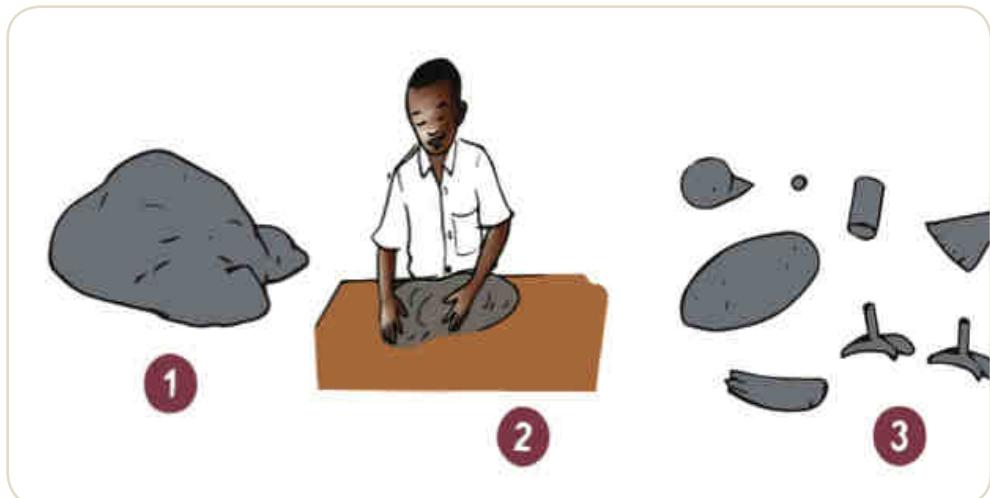
2.7

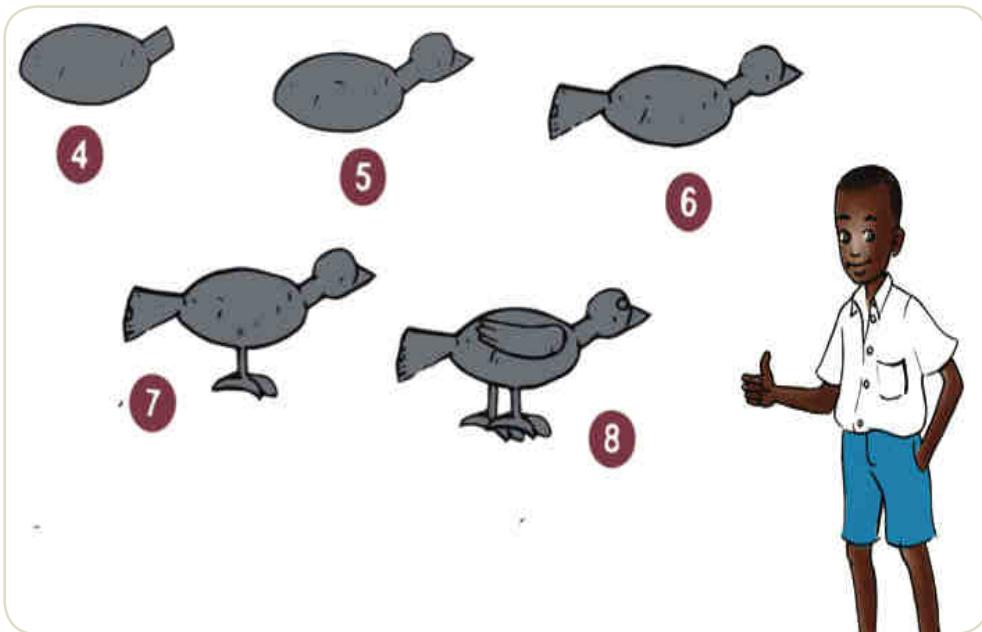
Ni gute wabumba ishusho isa n'inyoni mu ibumba?

Igikorwa cya 11

1. Itegereze amashusho ari hasi (1, 2, 3, 4, 5, 6, 7 na 8)
2. Tegura ibumba, umucanga muto n'amazi.
3. Vanga ibumba n'umucanga (ibipimo 2 by'ibumba ku gipimo kimwe cy'umucanga mutoya).
4. Kata ibumba urivanga n'umucanga n'amazi kugeza rinoze.
5. Bumba ishusho isa n'inyoni mu ibumba ukurikije intambwe zatanzwe ku mashusho ari hejuru.
6. Anika iryo shusho ahantu hatagera izuba (kugirango ridasatagurika).

Ibikoresho: ibumba, umucanga muto, amazi.





Ushoboye iki nyuma y'iri somo?

Nshoboye kubumba ishusho isa n'inyoni mu ibumba nkurikije intambwe zatanzwe mu gitabo.

Isuzuma

1. Mu bikorwa bikurikira, hitamo bibiri maze ubikore:
 - a) Kora inyoni mu rupapuro.
 - b) Kata urupapuro ukoremo (a) kare, (b) urukiramende.
 - c) Kora agakinisho kaguruka budege mu bikenyeri, uduti n'impapuro.
 - d) Kora mu ikarito isaha yo kumanika mu ishuri.
2. Uzurisha amagambo akwiriye mu nteruro zikurikira: purasitike, impande, umucanga, icyuma,
 - a) Mu gutegura ibumba rikorwamo ibikinisho, uvanga ibumba, n'amazi ku buryo binoga cyane.
 - a) Icupa rya rishobora kuvamo igikinisho kiguruka budege.
 - a) Iyo dukoresha umukasi, cyangwa urwembe tugomba kwirinda kwikomeretsa.
 - a) Kare ni ikinyampande enye gifite enye zose zingana kandi gifite imfuruka enye zingana kandi zigororotse.

UMUTWE WA 3

Inshuti yange mudasobwa

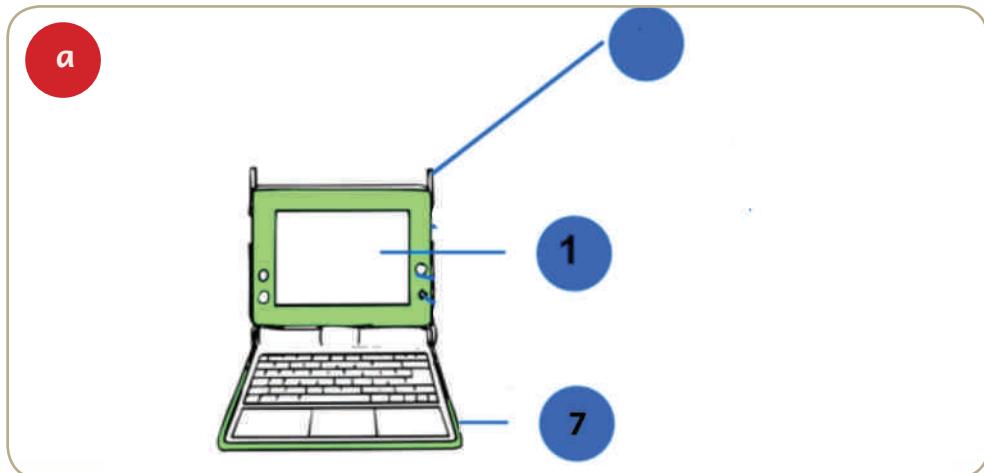
Mudasobwa ni igikoresho gikoreshwa henshi mu buzima bwa buri munsi. Uyu mutwe uzagufasha kuvumbura no gutandukanya ibice by'ingenzi bya mudasobwa, kumenya umumaro wabyo no kwitwararika mu buryo bwo kuyikoresha mu ishuri no mu rugo.

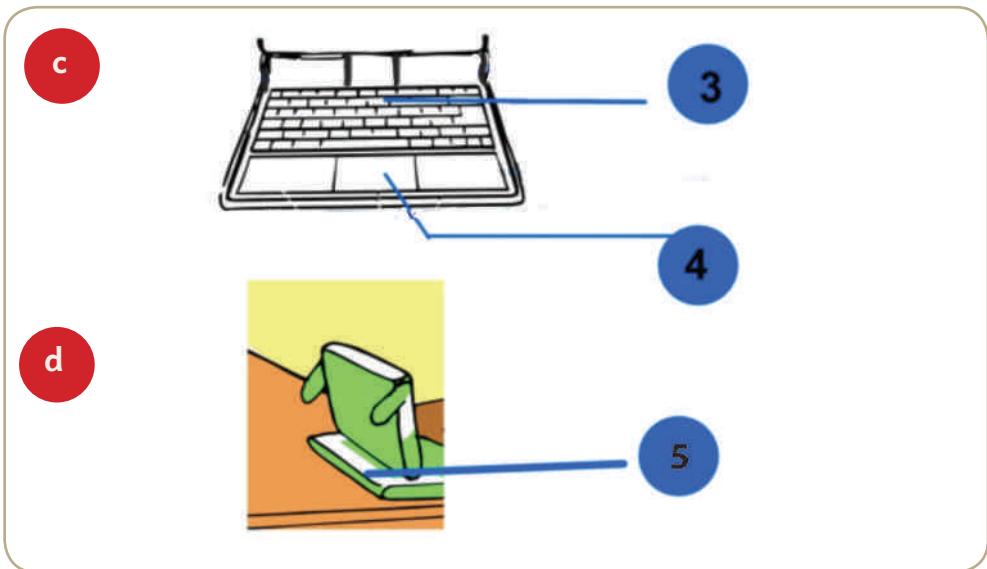
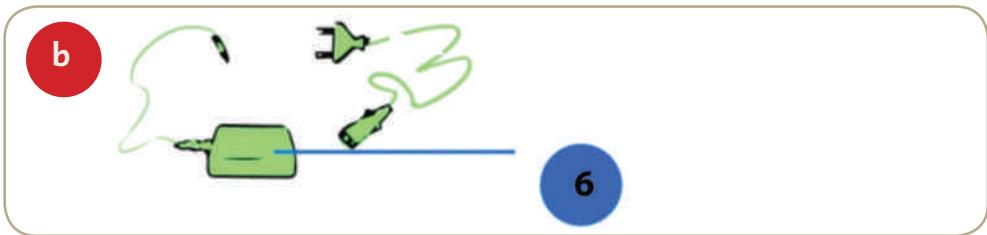
3.1

Ni ibihe bice by'ingenzi bigaragara inyuma kuri mudasobwa?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, **c** na **d**).
2. Fungura mudasobwa yawe, uyitereke imbere yawe ku meza.
3. Vuga amazina y'ibice (**1**, **2**, **3**, **4**, **5**, **6**, **7**) biri ku mashusho **a**, **b**, **c** na **d**.





Uvumbuye iki muri iri somo?

Mvumbuye ko

Ibice by' ingenzi bya mudasobwa ari:

1. Screen/monitor
2. Antenna
3. Mwandikisho (Keyboard)
4. TouchPad
5. Battery
6. Indahuzo (Charger/Adapter)
7. computer case

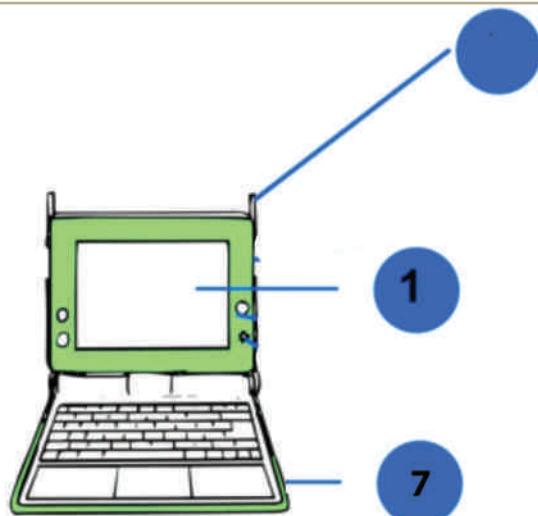
3.2

Ni uwuhe mumaro w'ibice bigaragara inyuma kuri mudasobwa ukoresha ku ishuri?

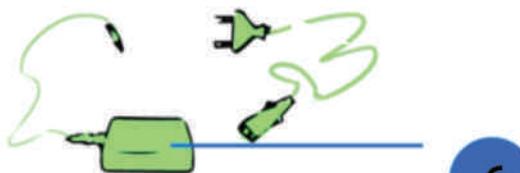
Igikorwa

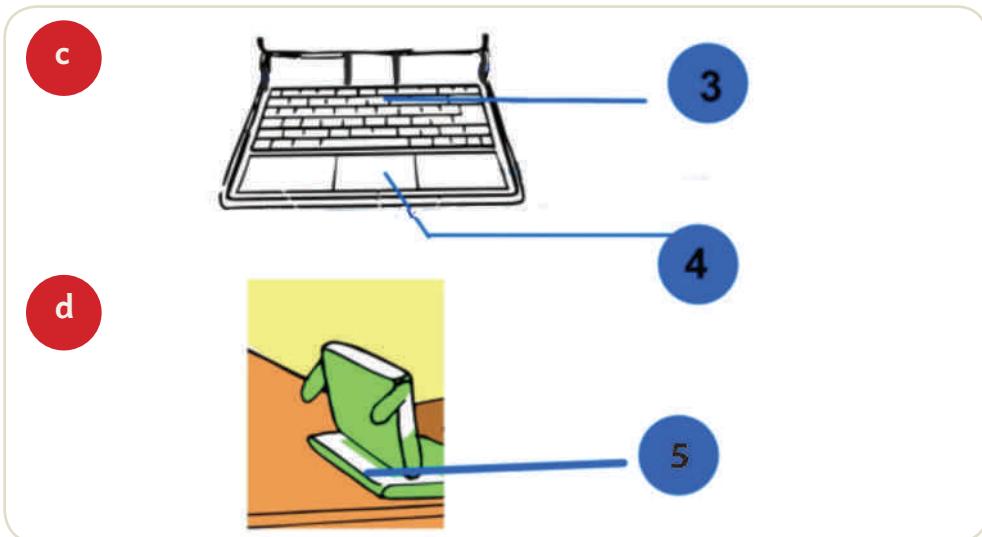
1. Itegerezze aya mashusho ari hasi (**a, b, c na d**)
2. Fungura mudasobwa yawe, uyitereke imbere yawe ku meza.
3. Sobanura umumaro wa buri gice (1, 2, 3, 4, 5, 6, 7) bakwerekira ku mashusho akurikira.

a



b





Uvumbuye iki muri iri somo?

Mvumbuye ko

Akamaro k'ibice by, ingenzi bigaragara inyuma bya mudasobwa ari aka gakurikira:

- 1. Screen/monitor:** Igice dusomeraho ibyanditse cyangwa tureberaho amashusho biri muri mudasobwa.
- 2. Antennae:** uduce tubiri twa mudasobwa dukurura interineti muri mudasobwa.
- 3. Mwandikisho (Keyboard) :** Igice kidufasha kwandika muri mudasobwa.
- 4. TouchPad:** Igice umuntu anyerezaho urutoki ashaka guhitamo amakuru areba kuri screen ya mudasobwa.
- 5. Battery:** Agace ka mudasobwa kabika umuriro mudasobwa ikoresha.
- 6. Indahuzo (Charger/Adapter) :** Umugozi winjiza umuriro muri mudasobwa icometse ku mashanyarazi.
- 7. Computer case:** Ni igice kibitsemo ibice by'imbere bya mudasobwa.

3.3 Ni gute twafata neza mudasobwa?

Igikorwa

1. Itegereze aya mashusho akurikira (**a** na **b**)
2. Sobanura ibyo aba banyeshuri bari gukora kuri buri shusho.
3. Ninde muri aba banyeshuri uri guhanagura mudasobwa ye mu buryo bwiza? Kubera iki?
4. Ni iki kindi wakwirinda kugirango mudasobwa yawe uyifate neza itangirika?



Uvumbuye iki muri iri somo?

Mvumbuye ko

Mudasobwa igomba kubungwabungwa kandi igafatwa neza ku buryo bukurikira:

- kwirinda kuyisukaho amazi cyangwa kuyinyagiza;
- kwirinda kuyitura hasi;
- kwirinda kuyishyira ahantu hari ubushyuhe bukabije;

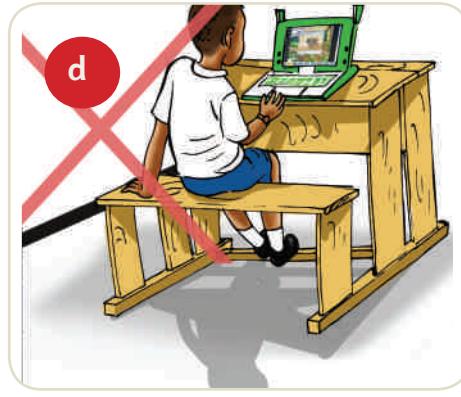
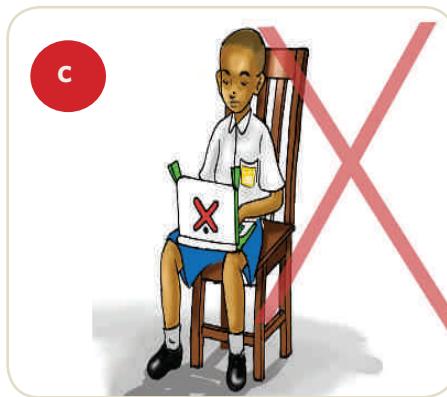
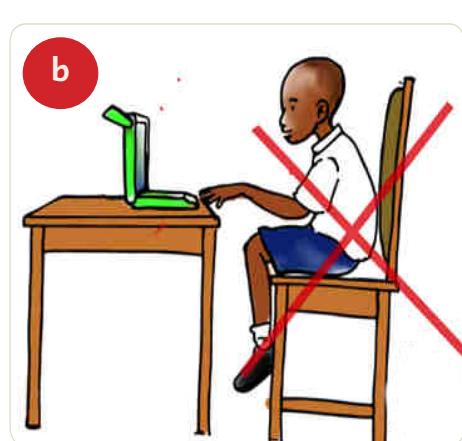
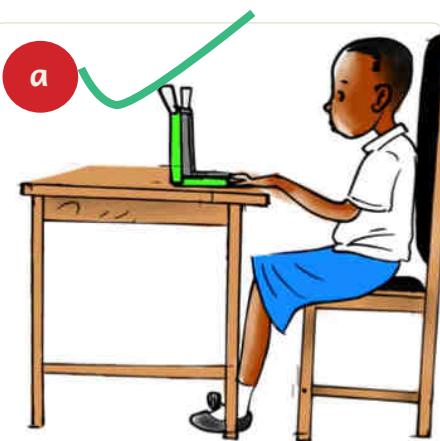
- kwirinda kuyiterekwa ahantu hatuma idasohora ubushyuhe (**Urugero**: Ku buriri, mu ntebe ahari igodora).

3.4

Ni ubuhe buryo buboneye bwo kwicara ukoresha mudasobwa?

Igikorwa

- Itegereze aya mashusho akurikira (**a**, **b**, **c**, na **d**)
- Itegereze neza uburyo abanyeshuri bicaye. Uwicaye neza ni uwuhe? Kubera iki?
- Gira inama uwicaye nabi kugirango yicare neza.



Uvumbuye iki muri iri somo?

Mvumbuye ko

Ukoresha mudasobwa agomba kwicara mu buryo bukurikira:

- Kwicara mu ntebe wemye;
- kwicara umugongo udahese kandi wegamiye intebe;
- kwirinda kwegereza mudasobwa amaso yawe igihe icanye;
- kwirinda kuyishyira ku bibero igihe uyikoresha;
- kwirinda kwicara wihengetse.

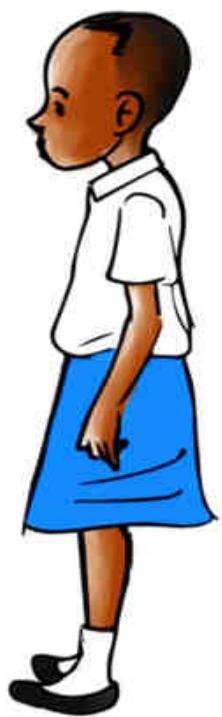
3.5

Ni izihe ngaruka zikomoka ku kwicara nabi ukoresha mudasobwa?

Igikorwa

1. Itegereze aya mashusho akurikira (**a** na **b**)
2. Hitamo ishusho y'umunyeshuri yaba igaragaza ingaruka zo kwicara nabi ukoresha mudasobwa.
3. Rondora izindi ngaruka zo kwicara nabi ukoresha mudasobwa.

a



b



Uvumbuye iki muri iri somo?

Mvumbuye ko

Kwicara nabi igihe nkoresha mudasobwa byantera ingaruka zikurikira

- Kurwara amaso
- Kurwara umugongo
- Guhetama uruti rw'umugongo

Isuzuma

1. Andika mu ikaye yawe amazina y'ibice bya mudasobwa bigaragara ku bishushanyo bikurikira

2. Sobanura umumaro wa buri gice uvuze haruguru.
3. Wifashishije mudasobwa yawe, erekana uburyo ugomba kuyibika kugira ngo itangirika.
4. Wifashishije mudasobwa yawe ndetse n'intebe wicaraho mu ishuri, erekana uburyo bwiza bwo kwicara uri kuyikoresha, unasobanure impamvu ugomba kwicara gutyo.

UMUTWE WA 4

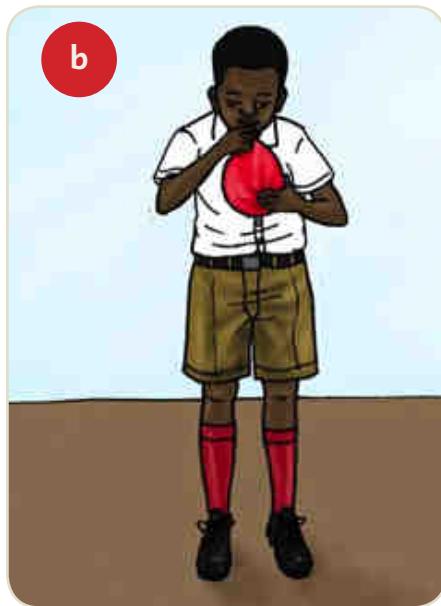
Umwuka n'umuyaga

Gukora neza ibikorwa biri muri uyu mutwe bizagufasha kuvumbura ukubaho k'umwuka, gusobanura ibiranga umwuka, kurondora akamaro k'umwuka, gusobanura isano iri hagati y'umwuka n'umuyaga, gutandukanya amoko y'umuyaga ndetse no kumenya kwirinda ingaruka mbi z'umuyaga.

4.1 Ni ibiki biranga umwuka?

Igikorwa

1. Itegerezze aya mashusho akurikira hasi (**a, b, c, d na e**)
2. Fata icupa ry'amazi ripfundikiye ritarimo amazi. Ese kuba ritarimo amazi ririmo ubusa? Niba ritarimo ubusa ni irihe bara ry'ikintu kiri muri irylo cupa?
3. Wifashishije ipompo ihaga umwuka mu igare, fungisha urutoki umunwa w'ipompo maze uhage umwuka urutoki rugifunze umunwa w'ipompo. Umwuka urimo wumvise umeze gute?
4. Inukirize umwuka uri mu icupa ryavuyemo amazi yo kunywa. Impumuro yawo ni iyih?
5. Haga umwuka mu gipirizo, maze nurangiza ugifungure wa mwuka ushiremo. Wasobanura ibara ry'umwuka usohotse mu gipurizo?



e



Uvumbuye iki muri iri somo?

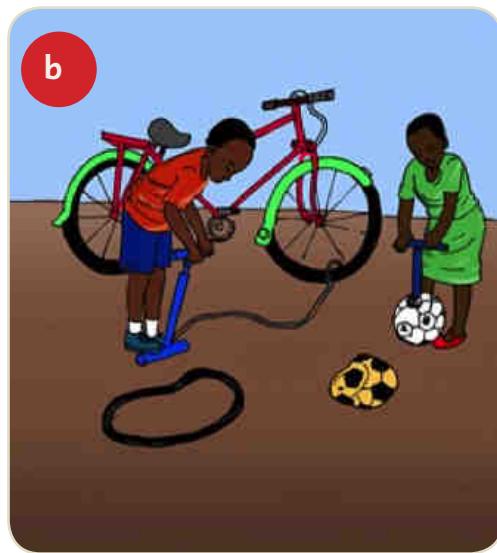
Mvumbuye ko

- Umwuka ubaho kandi utandukanye n'ubusa;
- Umwuka ufile ibiwuranga bikurikira:
 - Nta mubyimba bwite umwuka ugira (urafobagana kandi ukareguka);
 - Nta foromo/ishusho ifatika umwuka ugira (umwuka ufata iforomo y'icyo urimo) nk'ishashi, icupa n'ibindi,
 - Nta bara umwuka ugira;
 - Nta mpumuro umwuka ugira.

4.2 Ni akahe kamaro k'umwuka?

Igikorwa

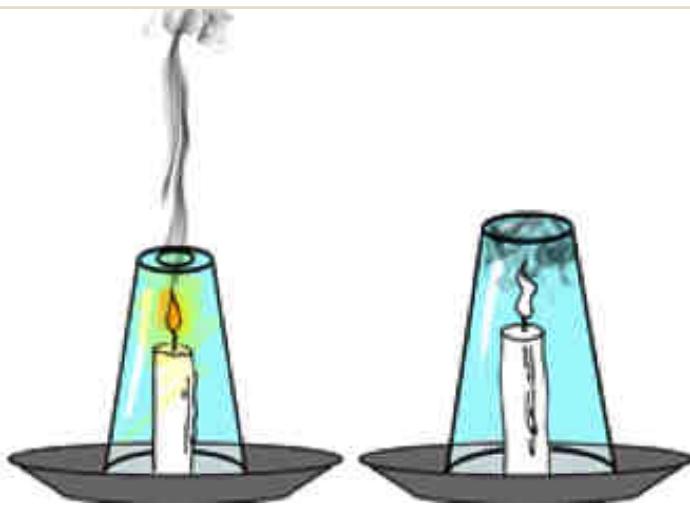
1. Itegereze aya mashusho ari hasi (**a**, **b**, **c**, na **d**)
2. Aba bana tubona ku mashusho bari ahantu hafite umwuka? Uwo mwuka umeze ute? sobanura
3. Wifashishije ipompo ihaga umwuka mu igare, ongera umwuka mu mupira wo gukina ndetse no mu ipine ry'igare. Ese umupine cyangwa umupira wo gukina bijya byuzura umwuka?
4. Cana buji ebyiri, imwe uyitwikirize ikirahure kimwe gitoboye mu ndiba, indi iyitwikirize ikindi kirahure kidatoboye mu ndiba (nk'uko bigaragara ku gishushanyo kiri ku rupapuro rukurikira). Ubonye iki?
5. Hungiza amakara ari kwaka ku mbabura. Kubera iki amakara ahita atukura cyane?



c



d



Uvumbuye iki muri iri somo?

Mvumbuye ko

- Ibinyabuzima (umuntu, inyamaswa n'ibimera) bihumeka umwuka mwiza;
- Umwuka bawuhaga mu mapine y'ibinyamitende/ ibinyabiziga (imodoka, ipikipiki, igare, ...), mu mupira wo gukina , mu bipurizo n'ibindi.
- Umwuka utuma umuriro waka.

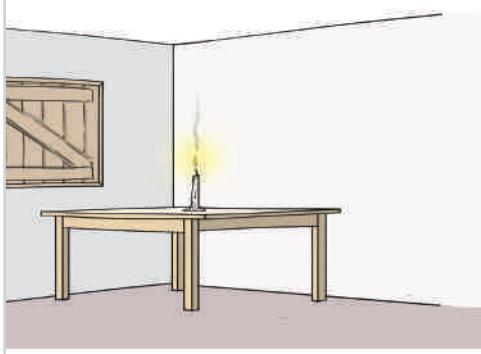
4.3

Ni irihe sano riri hagati y'umwuka n'umuyaga?

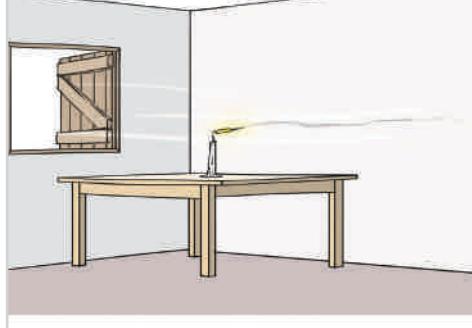
Igikorwa

1. Itegerez aya mashusho ari hasi (**a** na **b**)
2. Kubera iki hari buji yaka urumuri n'umwotsi byayo byahinduye ikerekezo cyaho buji yarebaga?
3. Ni irihe tandukaniro riri hagati y'umwuka n'umuyaga?

a



b



Uvumbuye iki muri iri somo?

Mvumbuye ko

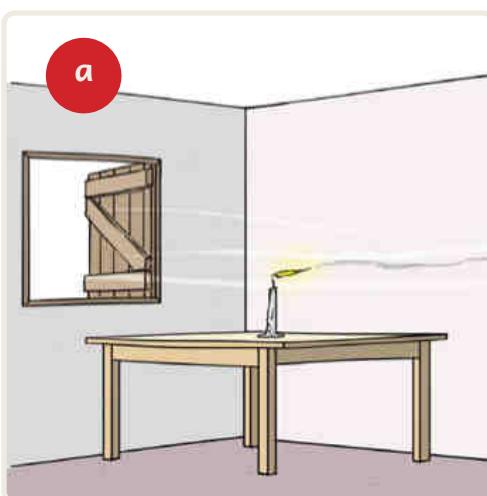
Umuyaga ari umwuka ugenda ufilet umuvuduko uri hejuru ugereranyije n'umuvuduko usanzwe w'umwuka.

4.4 Ni ayahe moko y'umuyaga ?

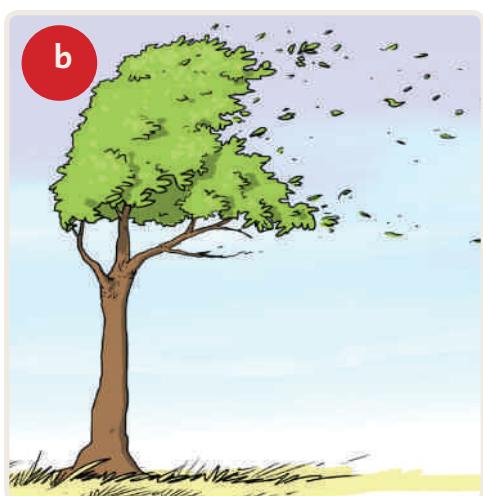
Igikorwa

1. Itegereze aya mashusho ari hasi (**a**, **b**, **c** na **d**).
2. Sobanura ibigaragara ku mashusho (**a**, **b**, **c** na **d**).
3. Erekana kuri ibi bishushanyo ahari: (1) akayaga gake, (2) serwakira, (3) inkubi y'umuyaga, (4) umuyaga wo mu rugero.

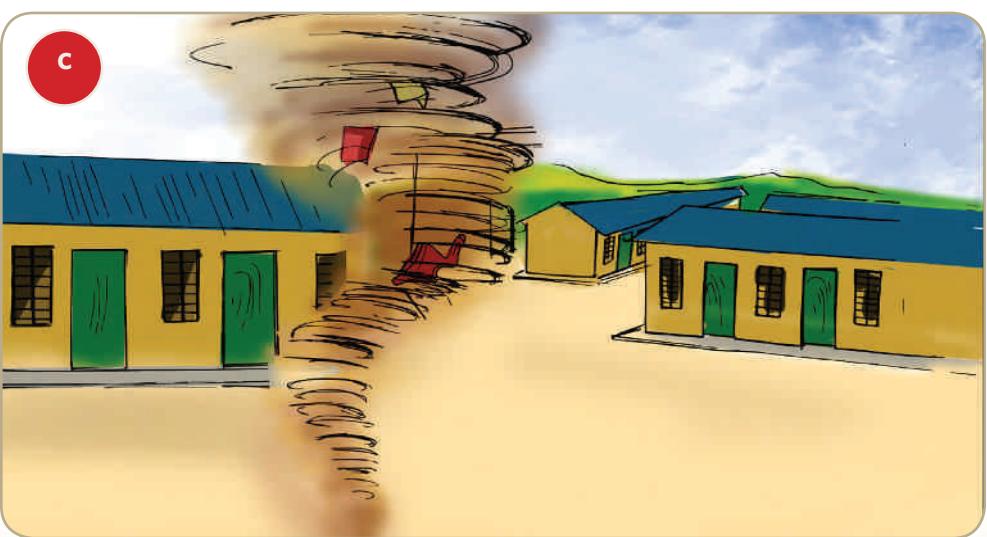
a



b



c



d



Uvumbuye iki muri iri somo?

Mvumbuye ko

Umuyaga ugira amoko akurikira: akayaga gake, umuyaga wo mu rugero, serwakira n'inkubi y'umuyaga.

1. **Akayaga gake** ni umuyaga uhuha buhoro;
2. **Umuyaga wo mu rugero** ni umuyaga uhuha ukabona bimwe mu bidukikije binyeganyega ariko udashobora kubyangiza;
3. **Serwakira ni** umuyaga mwinshi cyane ugenda usakuma ibyo usanze mu nzira . Akensi ugenda wizunguza kandi ukagaragara cyane ahantu hatari ibyatsi, hari ubutaka gusa;

4. Inkubi y'umuyaga ni umuyaga ufile imbaraga nyinshi cyane, ushobora no kurimbura ibiti cyangwa ugasenya amazu (umuyaga ushobora guteza isuri)

4.5 Ni izihe ngaruka z'umuyaga?

Igikorwa

1. Itegereze aya mashusho akurikira hasi (**a**, **b**, **c** na **d**).
2. Erekana ku mashusho akurikira aho ubona ibyiza by' umuyaga n'aho ubona ingaruka mbi zawo. Tanga ibisobanuro.



b



c





d

Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Ibyiza by'umuyaga** ari kumisha imyenda no gutanga amafu,
- **Ingaruka mbi z'umuyaga** ari ugusenya inyubako (amazu,) kwangiza ibimera no guteza isuri.

4.6 Ni gute twakwirinda ingaruka mbi z'umuyaga?

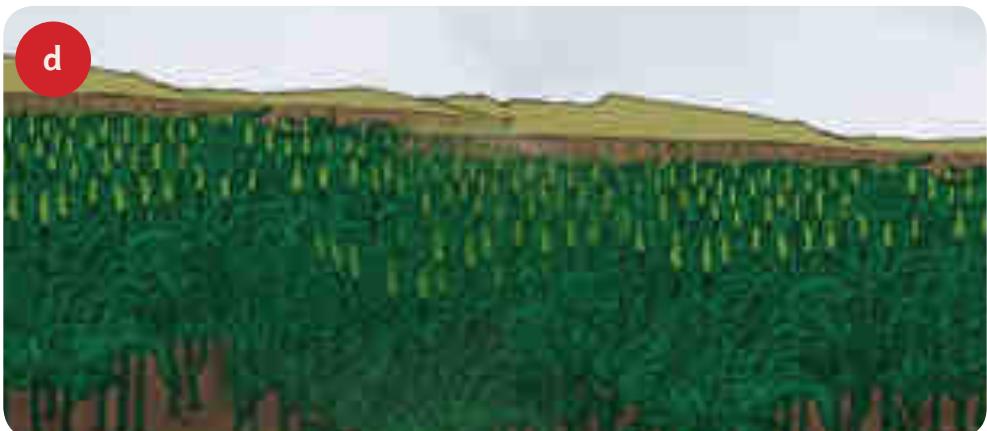
Igikorwa

1. Itegerez aya mashusho akurikira hasi (**a**, **b**, **c** na **d**)
2. Ni akahe kamaro ibiti bikikije amazu bifite?
3. Sobanura uburyo dushobora kwirinda ingaruka mbi z'umuyaga.



a





Uvumbuye iki muri iri somo?

Mvumbuye ko

Uburyo bwo kwirinda ingaruka mbi z'umuyaga ari:

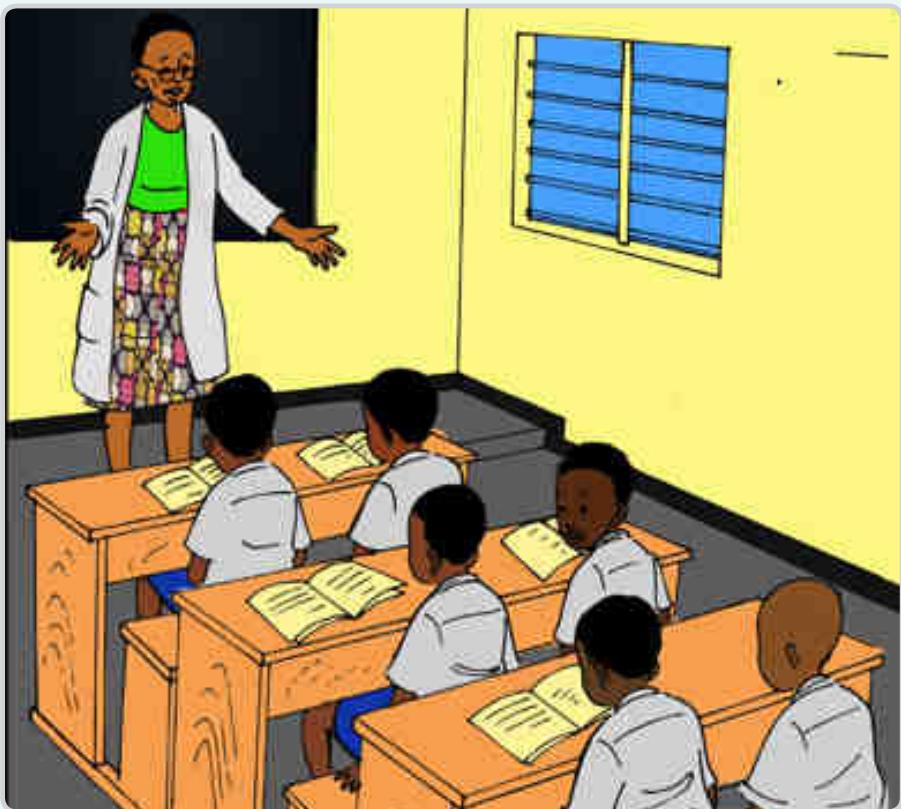
- **Gutera ibiti** ku misozi ni ahakikije inyubako cyangwa ibihingwa;
- **Kubaka inzitiro** hifashishijwe ubwoko bw'ibiti byabugenewe.

Isuzuma

1. Vuga ibantu bitanu biranga umwuka.
2. Vuga ubwoko bw'umuyaga uzi, unasobanure ingaruka za buri bwoko bw'umuyaga.
3. Kuri iyi shusho, urabona habura iki kugirango umuyaga utonona aya mazu n'imyaka ihinze mu murima?



4. Witegereje amashusho ari hasi, wavuga ko ibyiza by' umwuka n'umuyaga ari ibihe?



UMUTWE WA 5

Ubutaka

Iwanyu aho utuye, aho unyura ndetse n'aho wigira, uhabona ibintu byinshi. Mubyo ubona harimo n'ubutaka. Ugomba kwibaza niba ubutaka bwose bumeze kimwe, akamaro kabwo ndetse n'ibishobora kubwangiza kugira ngo umuntu ashobore kuburinda ibyabwangiza byose.

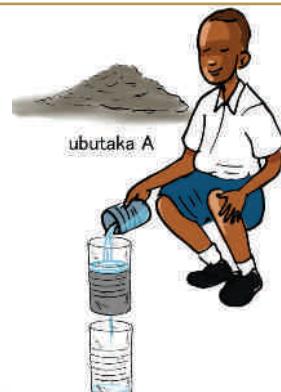
5.1

Amoko y'ubutaka ni ayahe?

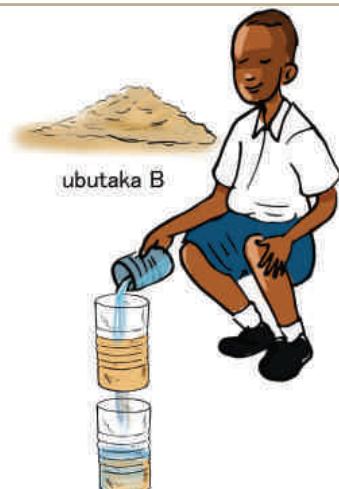
Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, na **c**)
2. Aba banyeshuri bari gukora iki?
3. Gereranya ingano y'amazi avuye mu butaka kuri buri shusho.
4. Sobanura impamvu amazi avuye mu butaka atangana ku mashusho yose.

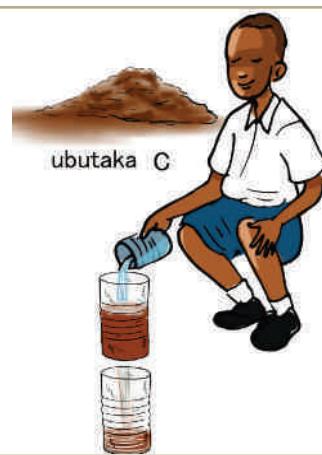
a



b



c



Uvumbuye iki muri iri somo?

Mvumbuye ko

Habaho amoko atatu y'ubutaka:

1. **Ubutaka bw'ibumba** ni ubutaka amazi atinjira ngo ahitemo yihuta;
2. **Ubutaka bw'urusenyi** ni ubutaka amazi yinjiramo agahitamo yihuta;
3. **Ubutaka bw'imberabyombi** ni ubutaka bufata amazi (ahita ni make).

5.2

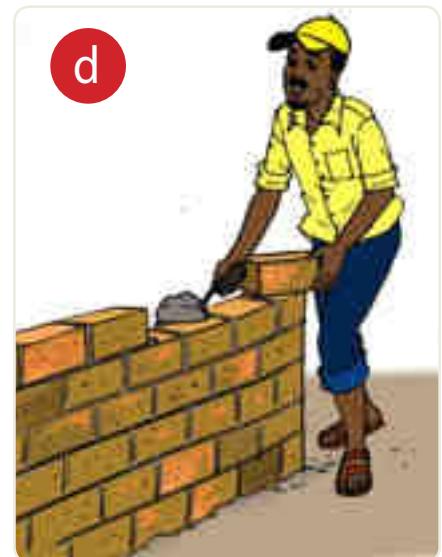
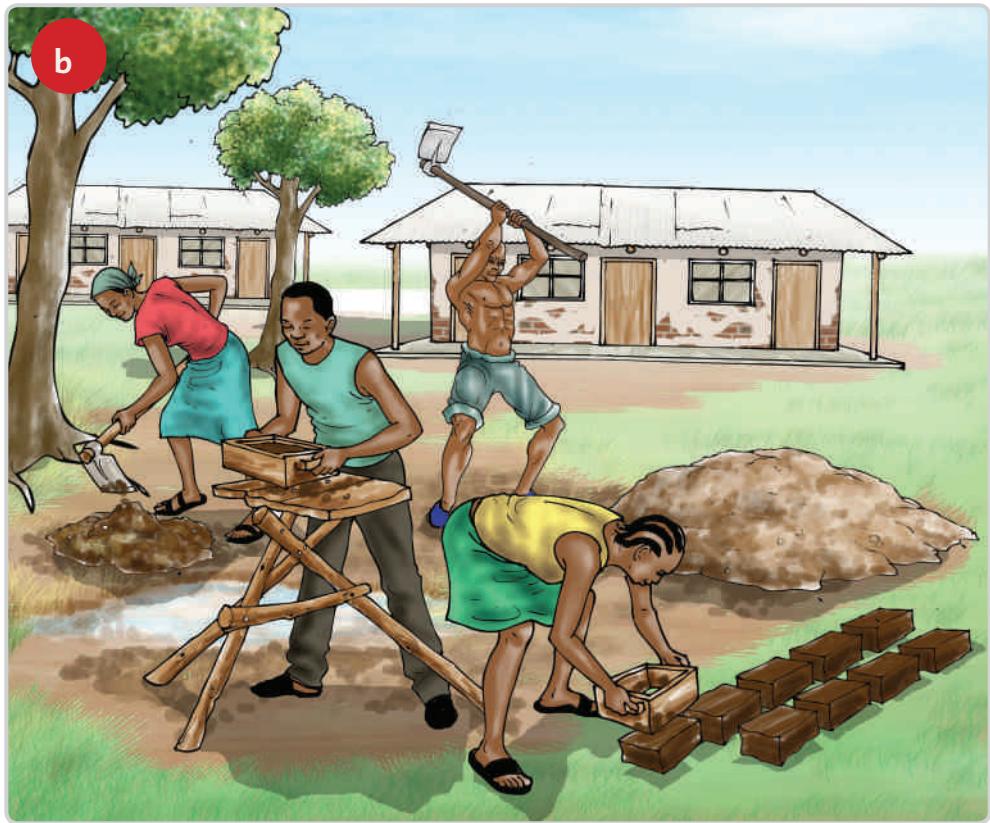
Ese ubutaka bufite akahe kamaro?

Igikorwa

1. Itegereze aya mashusho akurikira (**a, b, c, d, e, f, g na h**)
2. Abantu bari ku mashusho (**a, b, c, d, e, f, g na h**) bari gukora iki?



a







Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Ubutaka bw'imberabyombi** ari ubutaka buberanye no guhinga;
- **Ubutaka bw'urusenyi** ari ubutaka bwo gukoramo ibikoresho by' uwubatsi (amatafari, amategura n'ibindi....) ndetse no kubwubakisha;
- **Ubutaka bw'ibumba** ari ubutaka bwo kubumbamo ibikoresho binyuranye (amategura, inkono, imitako, n'ibindi...).

5.3 Ni ibiki byangiza ubutaka?

Igikorwa

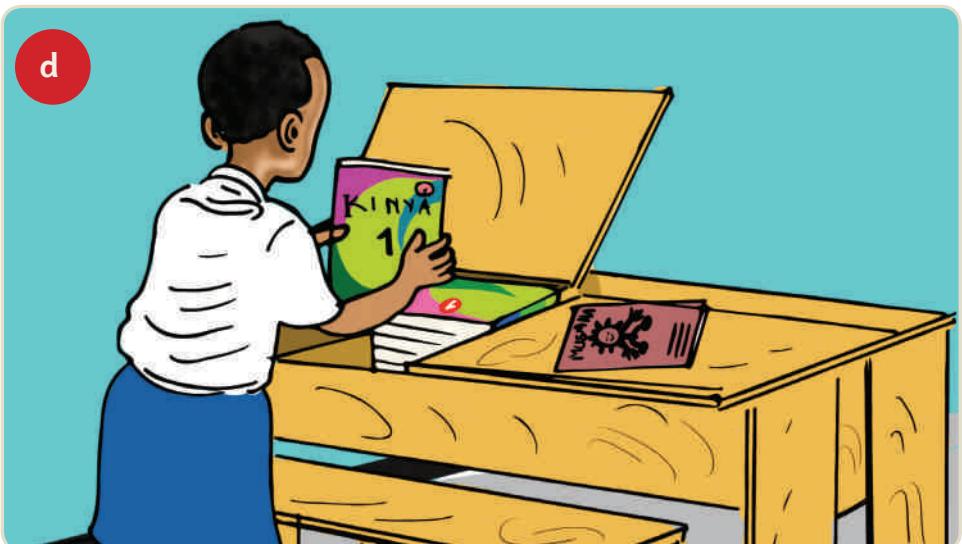
1. Itegerezze aya mashusho akurikira (**a**, **b**, **c** na **d**)
2. Ni ibiki ureba ku mashusho **a**, **b**, **c** na **d**?
3. Erekana ishusho ubona ko ubutaka buriho bwahuye n'ikibazo cyangiza ubutaka? Icyo kibazo ni ikihe? Cyatewe n'iki? Sobanura.
4. Wakora iki kugira ngo urinde kwangirika k'ubutaka?



c



d



Uvumbuye iki muri iri somo?

Mvumbuye ko

Ubutaka bwangizwa n' ibi bikurikira:

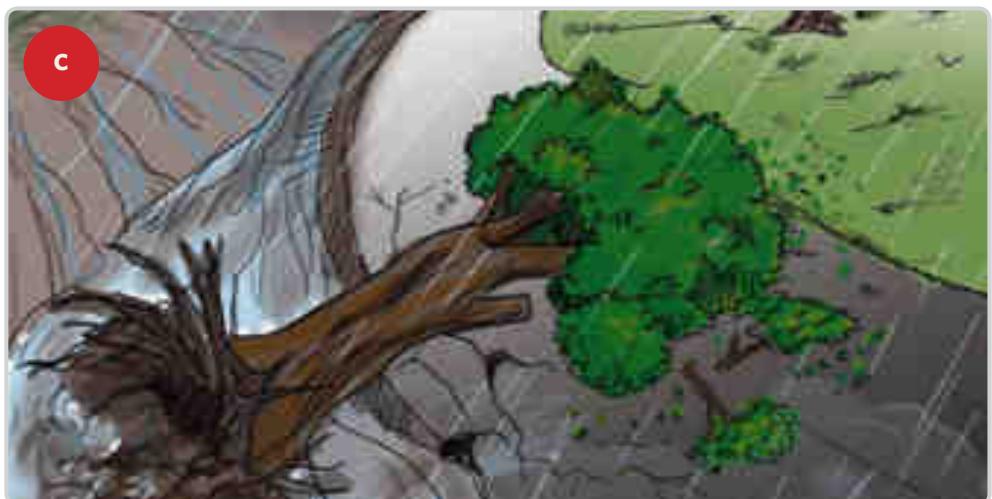
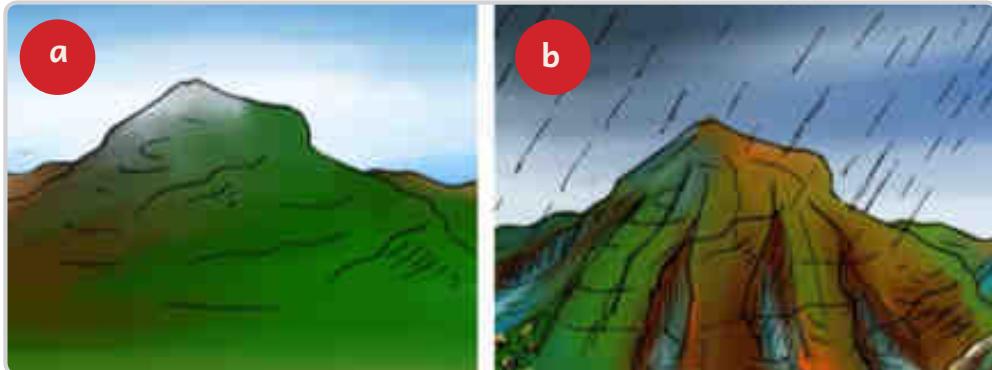
- amazi y'imvura;
- umuyaga (serwakira), cyangwa inkubi y'umugaga;
- umuriro (utwika imisozi);
- imyanda itabora bajugunya mu mirima.

5.4

Ni izihe ngaruka z'amazi ku butaka?

Igikorwa

1. Itegereze aya mashusho akurikira (**a**, **b**, **c** na **d**)
2. Ni ikihe gishushanyo kigaragaza akamaro k'amazi ku butaka?
3. Ni ikihe gishushanyo kigaragaza aho amazi yangije ubutaka?



d



Uvumbuye iki muri iri somo?

Mvumbuye ko

1. Ibyiza by'amazi ku butaka ari uko:

- amazi abobeza ubutaka buhingwa;
- amazi atuma ibimera ku butaka bikura neza.

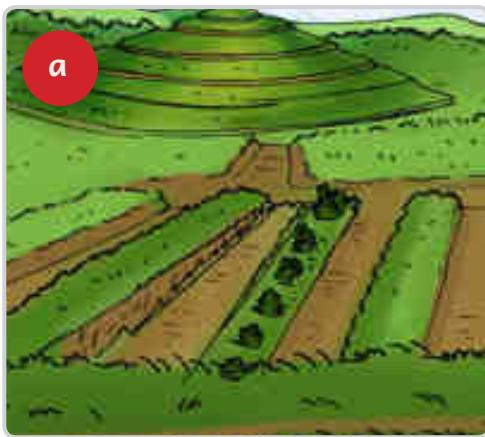
2. Ibibi by'amazi ku butaka:

- gutera isuri;
- gutera inkangu;
- gutwara ifumbire y'ubutaka buhingwa.

5.5 Ni gute twarinda ubutaka kwangirika?

Igikorwa

1. Itegereze aya mashusho akurikira (**a** na **b**).
2. Wakora iki kugira ngo urinde ubutaka kwangirika?



Uvumbuye iki muri iri somo?

Mvumbuye ko

- **Turinda ubutaka kwangirika** dutera ibiti
- **Turinda ubutaka kwangirika duca** imirwanyasuri.
- **Turinda ubutaka kwangirika** Twirinda gutwika imisozi;
- **Turinda ubutaka kwangirika** Twirinda imyanda itabora ku butaka buhingwa.

Isuzuma

1. Ubutaka burimo amoko angahe? Ayo moko uyabwirwa n'iki?
2. Hitamo igisubizo kiri cyo:
 - a) Mu kubumba imitako, hifashishwa ibumba rivanze n'agacanga gake.
 - b) Iyo dushaka kumenya ubwoko bw'ubutaka tububwirwa n'impumuro yabwo.
 - c) Mu kubumba inkono, hifashishwa ibumba bavanga n'amazi bakabyumisha, bakabona kubitwika ngo bikomere.
3. Subiza Yego cyangwa Oya:
 - a) Mu kubumba imitako, amatafari ahiye n'inkono hifashishwa ubutaka bw'imberabyombi.
 - b) Ubutaka bw'urusenyi nibwo bwiza bwo guhingaho.
 - c) Isuri iterwa n'amazi yaretse ku butaka agakora ikidendezi.
4. Ni ukubera iki ubutaka bwose budashobora gukoreshwa mu guhoma amazu?
5. Uretse amazi, ni ibihe bintu bindi bishobora kwangiza ubutaka? Sobanura uko bibwangiza.
6. Rondora unasobanure ibyiza by'amazi ku butaka.

UMUTWE WA 6

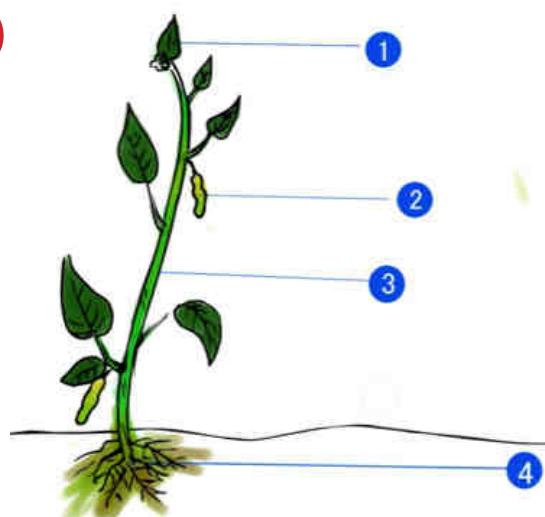
Ibimera

Aho dutuye haboneka ibimera bitandukanye, bimwe birimeza ibindi birahingwa. Byose bifite akamaro kanini ku bantu, ku nyamaswa no ku bidukikije.

6.1 Ni ibihe bice by'ingenzi dusanga ku kimera?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, na **c**);
2. Ikimera gifite ibihe bice by'ingenzi?
3. Sobanura akamaro ka buri gice usanga ku kimera.





Uvumbuye iki muri iri somo?

Mvumbuye ko

Ikimera gifite ibice by'ingenzi bikurikira: imizi, uruti, amababi, indabyo n'imbuto.

Buri gice k'ikimera gifite akamaro kihariye

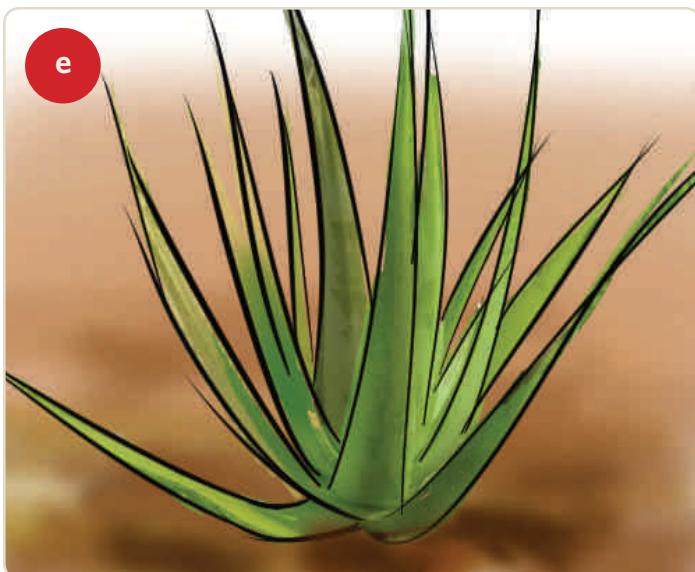
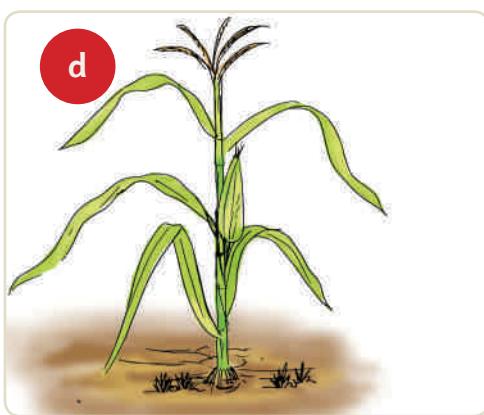
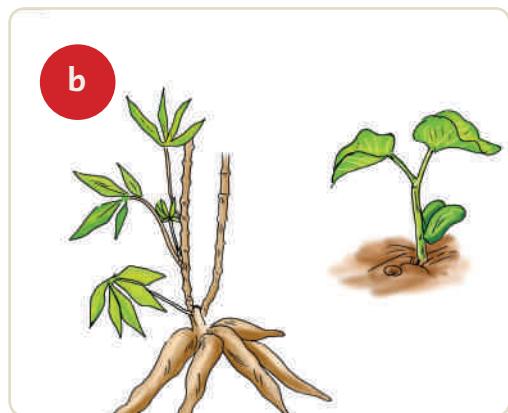
- **Imizi:** gufatisha ikimera no kukivomera mu butaka ibitunga
- **Uruti (n'amashami):** gufata amababi, indabo n'imbuto, rugatwara ibitunga ikimera biva mu mizi bijya mu bindi bice byacyo;
- **Amababi:** atunganya ibitunga ikimera
- **Indabo:** zitanga imbuto.
- **Imbuto:** zitanga ikimera gishya.

6.2

Ibimera tubona bifite uwuhe mumaro?

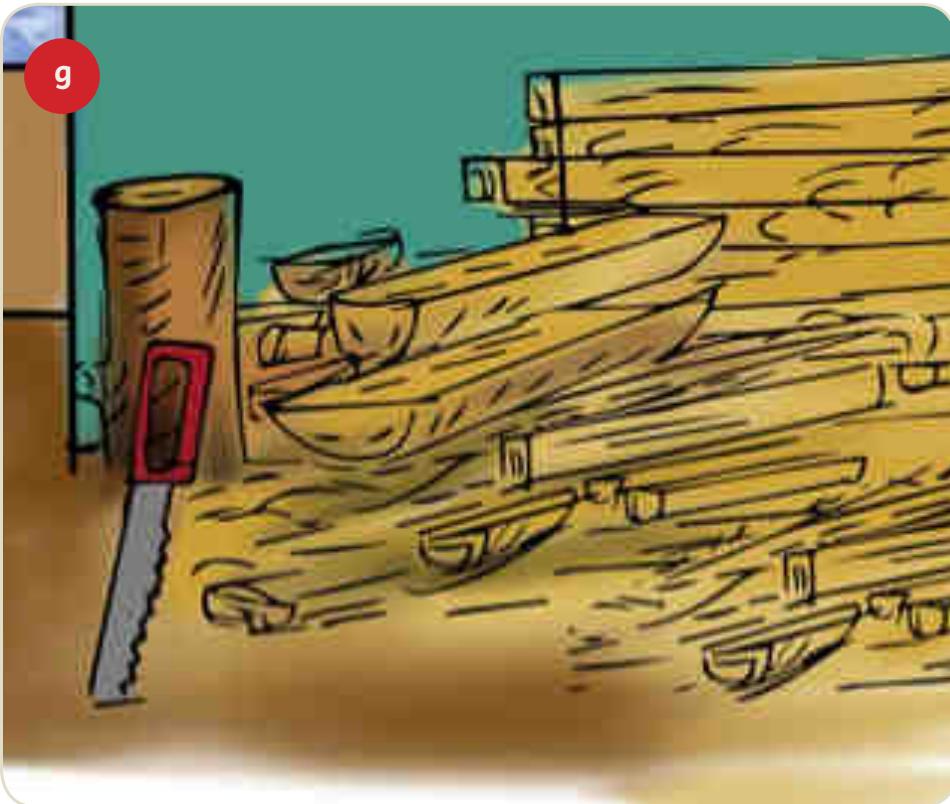
Igikorwa

1. Itegereze aya mashusho akurikira (**a, b, c, d, e, f, g, h, i na j**).
2. Sobanura ibyo ureba ku mashusho (**a, b, c, d, e, f, g, h, i na j**).
3. Ni ayahe matsinda 2 y'ibimera usanga ku mashusho.
4. Uhereye kuri ayo mashusho, ni akahe kamaro ubona ibimera bidufitiye?

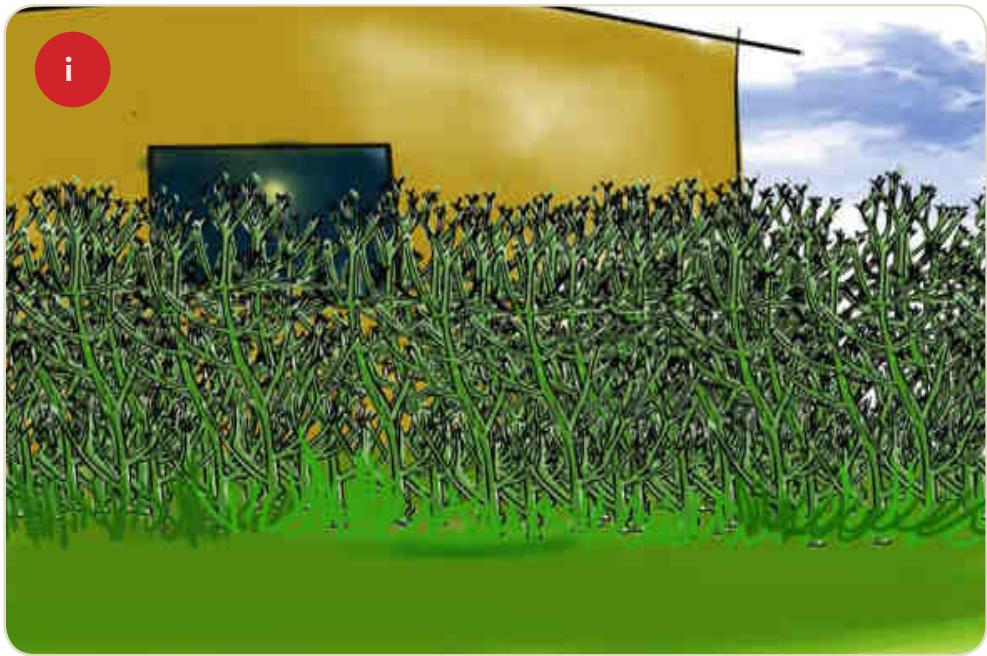




f



g



j



Uvumbuye iki muri iri somo?

Mvumbuye ko

Ibimera bigabanyijemo amatsinda abiri

- **Ingengabukungu:** kawa, icyayi, ibireti, ipamba n'ibindi.
 - **Ingandurarugo:** ibirayi, ibishyimbo, igitoki n'ibindi.
- Ibindi bimera bifite akamaro ku buryo bukurikira.
- **Ibikoreshwa mu buvuzi:** umuravumba, inturusu n'ibindi.
 - **Ibikoreshwa mu gutegura (gutaaka):** indabo.
 - **Ibirwanya isuri:** setariya, urubingo n'ibindi.
 - **Ibikoreshwa mu gutanga inkwi no gutanga imbah:** inturusu, gereveriya, pinusi, umusave, isipure.
 - **Ibikoreshwa mu kuzitira:** umuyenzi, umuvumu n'ibindi.

Isuzuma

1. Subiza ibi bibazo:
 - a) Shushanya igishyimbo kandi werekane amazina y'ibice byacyo by'ingenzi.
 - b) Sobanura akamaro ka buri gice kigize igishyimbo.
2. Mu mbonerahamwe ikurikira, shyira ibi bimera mu matsinda ukurikije umumaro wabyo: ibishyimbo, amashaza, kawa, icyayi, umuravumba, inturusu, igikakarubamba, indimu, indabo, umusave, isipure n'umuyenzi.

Ibigenewe kuribwa	Ingenga-bukungu	Ibikoreshwa mu kuzitira	Gutanga inkwi n'imbaho	Ibikoreshwa mu gutegura

UMUTWE WA 7

Urumuri n'ubushyuhe

Ahadukikije, imirimo ishobora gukorwa ku manywa cyangwa igakomeza no mu masaha dukeneramo urumuri rutari izuba. Bimwe mu bitanga urumuri bishobora kandi no gutanga ubushyuhe.

7.1

Urumuri tubona rukomoka hehe?

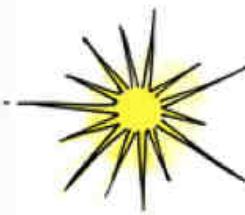
Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, **c**, **d**, **e** na **f**)
2. Sobanura ibyo ureba ku mashusho akurikira. Ayo mashusho yose ahuriye ku ki?
3. Rondora ibintu uzi bitanga urumuri.

a

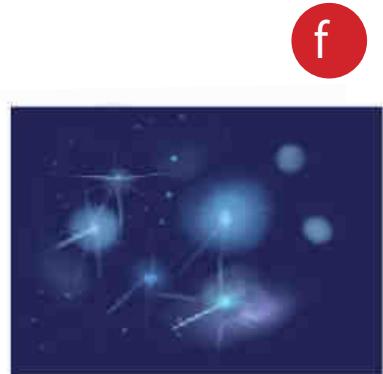


b



c





Uvumbuye iki muri iri somo?

Mvumbuye ko

- Habaho urumuri, umwijima n'igicucu.
- Ibitanga urumuri by'ingenzi ni: izuba, isitimu, umuriro, buji, itadowa, itara rya peterori, itara ry'amashanyarazi, umwambi w'ikibiriti, itara rya gazi, inkwi mu ziko n'ibindi...

7.2

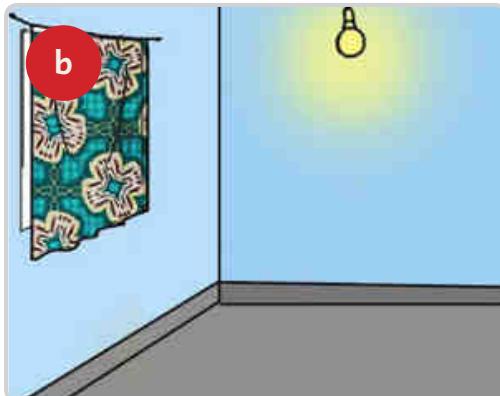
Umwijima ni iki?

Igikorwa

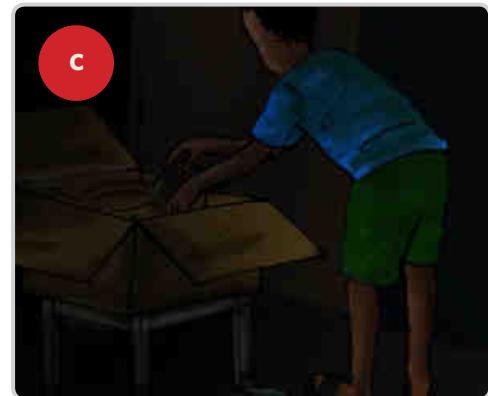
1. Itegereze aya mashusho akurikira (**a**, **b** na **c**).
2. Ni iki gitandukanya ibice bibiri bigize ishusho **a**
3. Umuntu uri ku ishusho **c** ashobora kubona n'amaso ikintu ashaka muri kiriya cyumba? Kubera iki?
4. Kora icyumba cy'umukara upfuka ku madirishya n'umuryango, ku buryo nta rumuri rwinjira. Sobanura, umwijima ni iki?



a



b



c

Uvumbuye iki muri iri somo

Mvumbuye ko

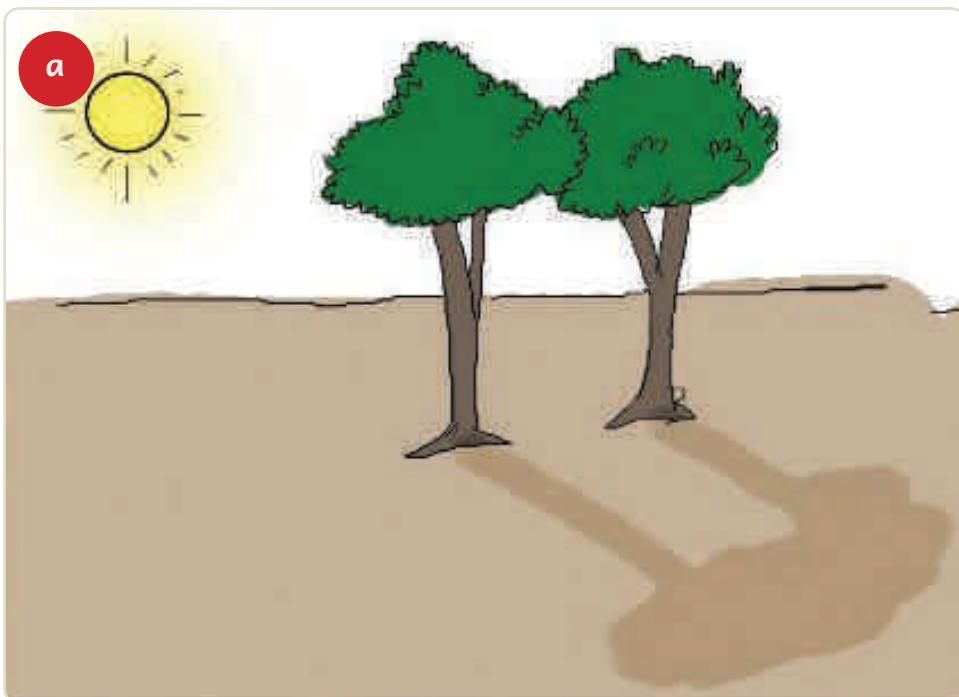
Habaho umwijima iyo nta rumuri ruhari.

7.3

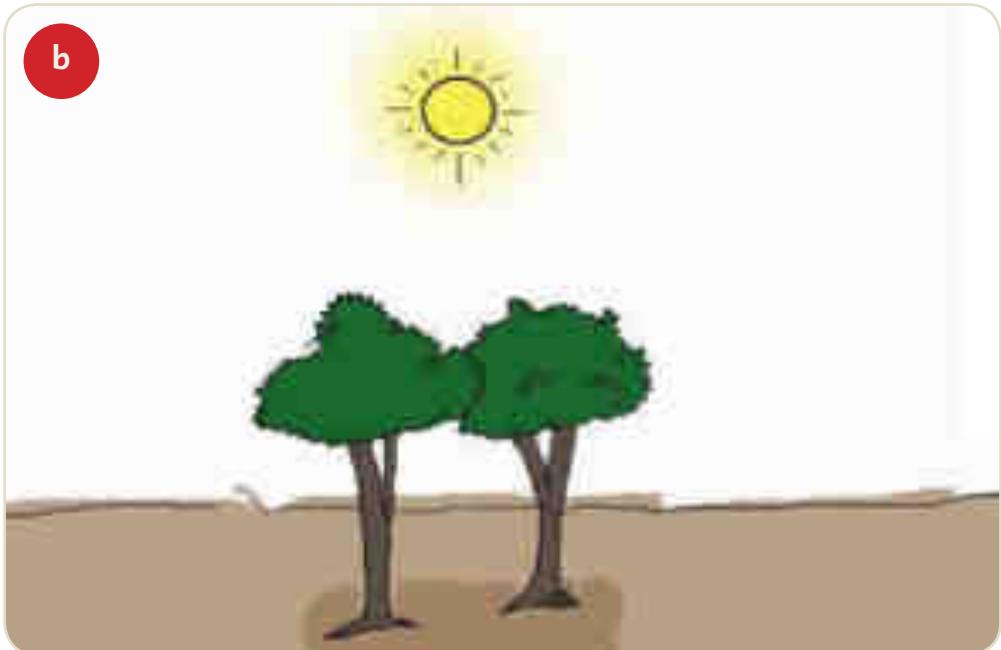
Ni irihe sano riri hagati y'urumuri n'igicucu?

Igikorwa

1. Itegereze aya mashusho akurikira (**a**, **b** na **c**) .
2. Ibishushanyo umaze kwitegereza birerekana iki?.
3. Ni ukubera iki ibicucu bigaragara ku mashusho (**a**, **b**, na **c**) bifite uburebure butandukanye?
4. Ni akahe kamaro k'izuba mu kubaho kw'igicucu?
5. Pima uburebure bw'igicucu k'igitu kiri ku ishuri mu bihe bitandukanye by'umunsi (mu gitondo, ku manywa, ku mugoroba) unasobanure impamvu ibyo bicucu bifite uburebure butandukanye.
6. Wifashishiye itoroshi, kora igicucu k'ikayi n'ikaramu mu ishuri.Uhereye kuri ibyo, wavuga ko igicucu ari iki?



b



c



Uvumbuye iki muri iri somo?

Mvumbuye ko

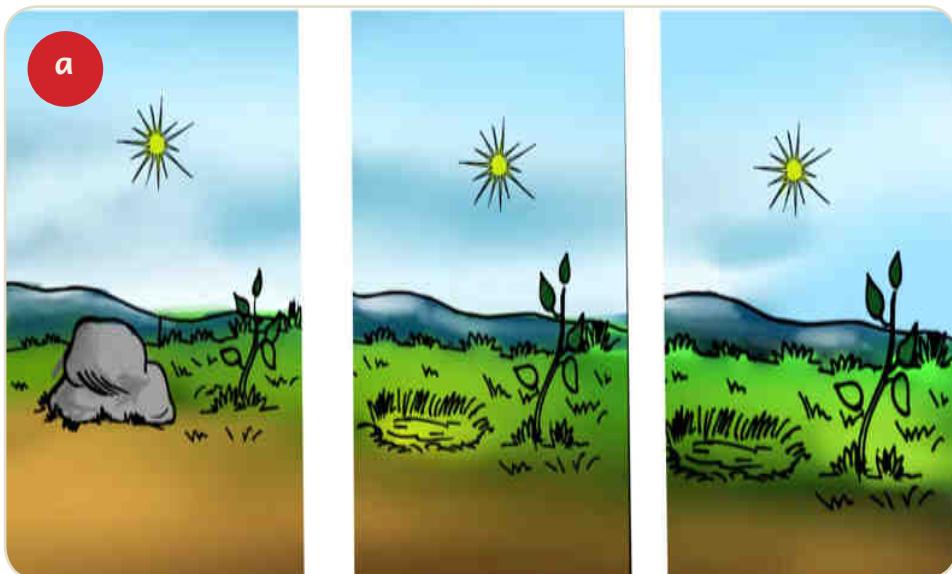
Igicucu ari ishusho y'ikintu gikingirije igitanga urumuri kuri icyo kintu.

7.4

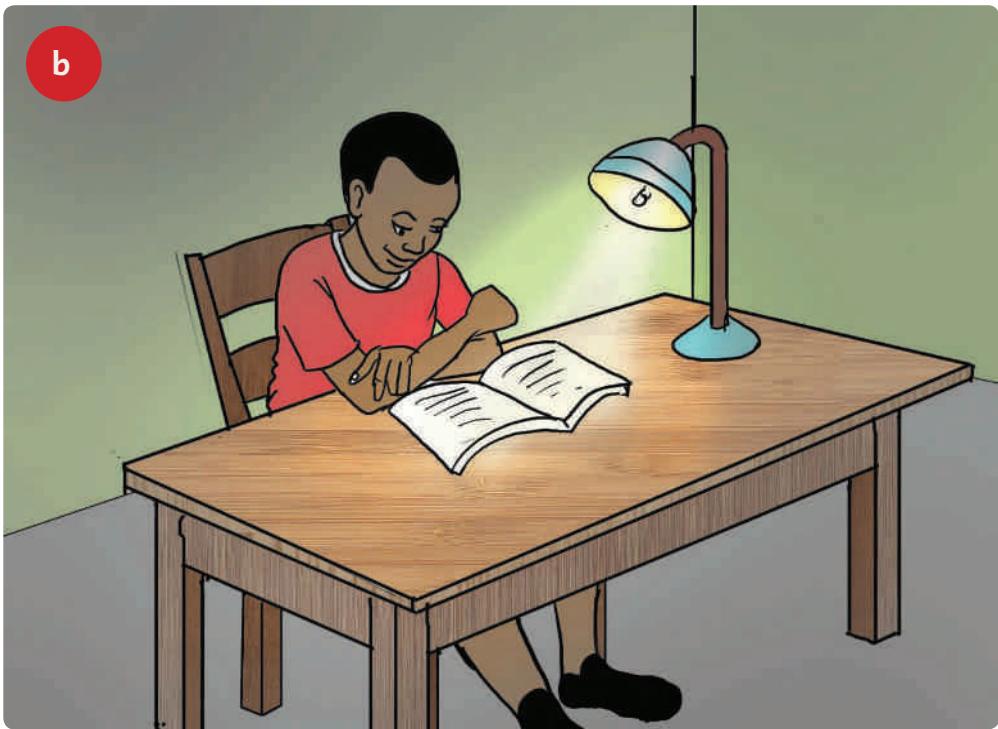
Urumuri rufite akahe kamaro ku binyabuzima?

Igikorwa

1. Itegereze aya mashusho akurikira (**a** na **b**);
2. Amashusho **a** na **b** arerekana iki?
3. Reba ahari ubusitani butoshye ku ishuri ryawe, ibimera ubitwikirize ikintu (ibuye ribwase), gituma izuba ritabigeraho, utegereze icyumweru (iminsi 7), nyuma ukureho rya buye. Ubonye iki? Sobanura akamaro urumuri rufitiye ibimera.



b



Uvumbuye iki muri iri somo?

Mvumbuye ko

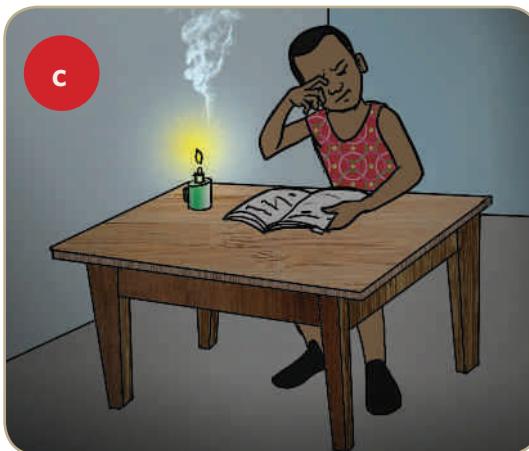
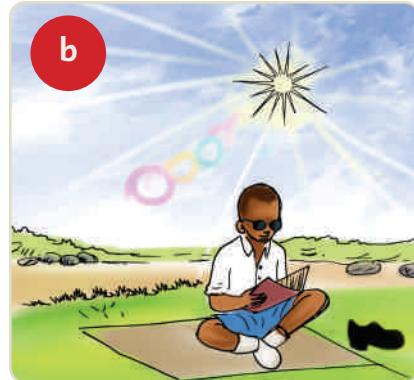
- Urumuri rumurikira abantu bakareba neza. Urumuri rwirukana umwijima;
- Urumuri rutuma ibimera bikomeza kugira ibara ry'icyatsi kibisi.

7.5

Ibibi by'urumuri ni ibihe? Wabyirinda gute?

Igikorwa

1. Itegereze aya mashusho akurikira (**a, b, c na d**).
2. Amashusho (**a, b, c na d**) arerekana iki?
3. Ku mashusho (**a, b, c na d**) hitamo ishusho y'umwana usoma kandi yirinda ibibi by'urumuri. Sobanura impamvu ari yo uhisemo.
4. Ni ibihe bibi by'urumuri rwinshi cyangwa se urumuri ruke?



Uvumbuye iki muri iri somo?

Mvumbuye ko

- Urumuri rwinshi rwangiza amaso.
- Urumuri rudahagije narwo rwangiza amaso.

Kwirinda ibibi by'urumuri:

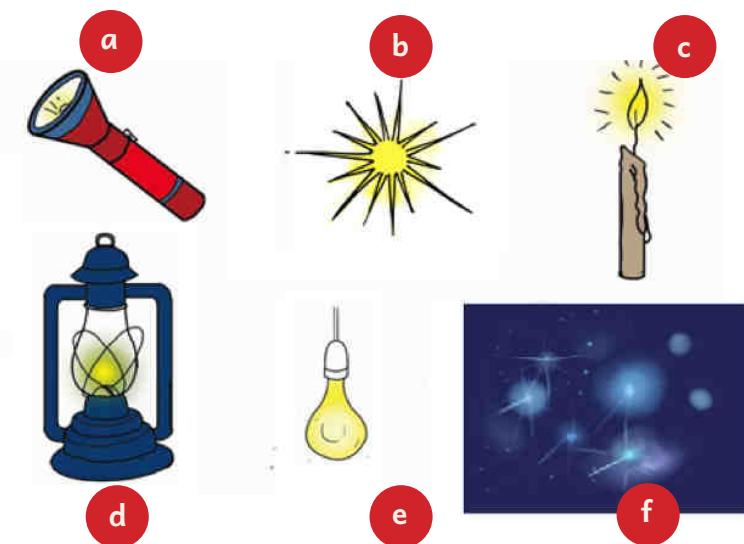
- Twirinda gusomera ku rumuri rwinshi cyangwa ruke cyane.
- Twirinda kureba/gusomera ku zuba ryinshi nta ndorerwamo zabugenewe.

7.6

Ubushyuhe twumva buturuka he?

Igikorwa

1. Itegerezay aya mashusho akurikira (**a**, **b**, **c**, **d**, **e** na **f**).
2. Amashusho **a**, **b**, **c**, **d**, **e** na **f** arerekana iki?
3. Ibantu bigaragara ku mashusho **a**, **b**, **c**, **d**, **e** na **f** bishobora gutanga ubushyuhe ni ibihe?
4. Rondora ibantu mukoresha iwanyu mu rugo bitanga ubushyuhe?



Uvumbuye iki muri iri somo?

Mvumbuye ko

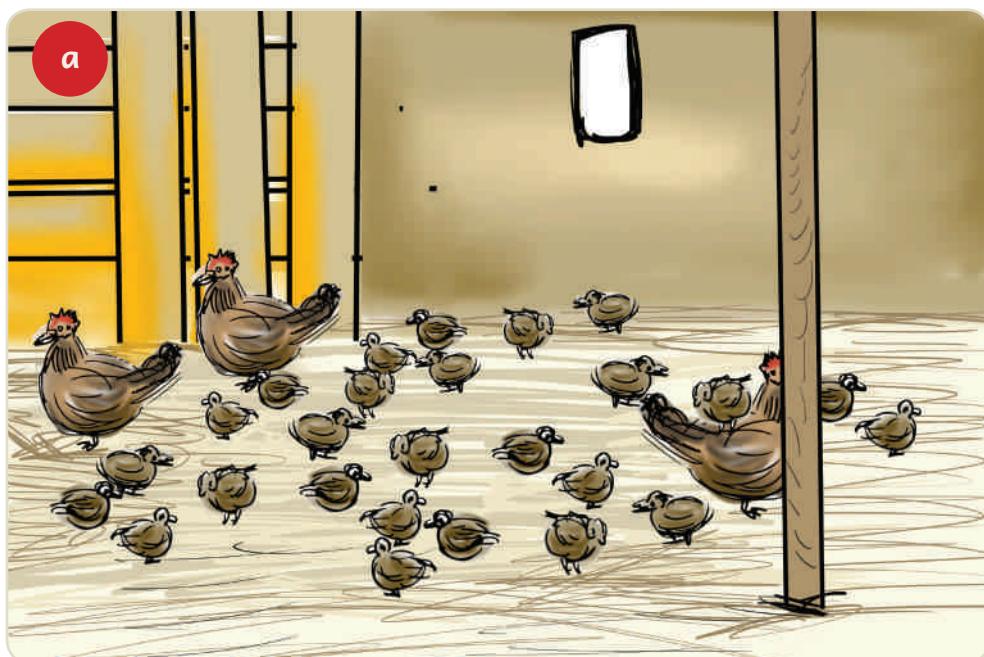
Ibitanga ubushyuhe ari: izuba, buji, itadowa, itara rya peterori, itara ry'amashanyarazi, umwambi w'ikibiriti, itara rya gazi, inkwi mu ziko n'ibindi.

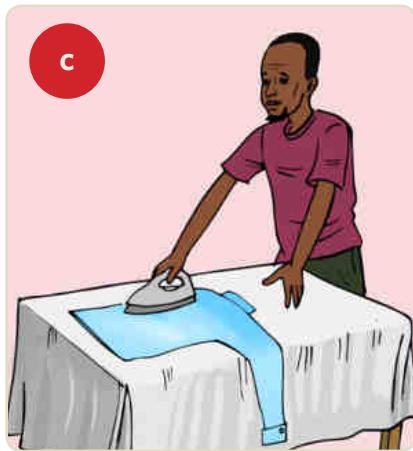
7.7

Ese ubushyuhe bufite akahe kamaro?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, **c** na **d**).
2. Amashusho **a**, **b**, **c** na **d** arerekana iki?
3. Uhereye ku mashusho **a**, **b**, **c** na **d** sobanura akamaro k' ubushyuhe ku binyabuzima.





Uvumbuye iki muri iri somo?

Mvumbuye ko

Ubushyuhe bufite akamaro ko

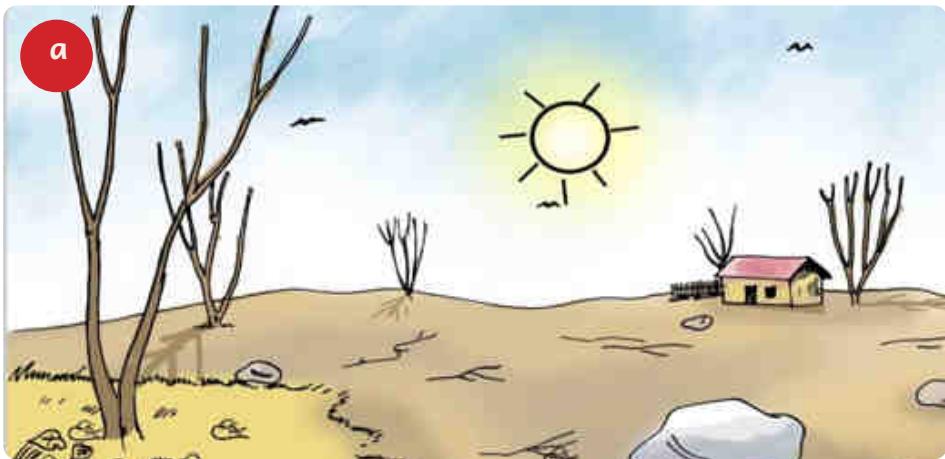
- guteka ibyo kurya;
- kugabanya ubukonje mu nyubako zinyuranye;
- kumisha imyenda cyangwa imyaka;
- gufashya inyamaswa zikiri ntoya gukomeza kubaho (imishwi y'inkoko).

7.8

Ni izihe ngaruka zituruka ku bushyuhe?

Igikorwa

1. Itegereze aya mashusho akurikira (**a** na **b**).
2. Amashusho **a** na **b** arerekana iki?
3. Ni ibihe bintu bigaragaza ibibi by'ubushyuhe ku mashusho **a** na **b** muri iki gitabo?
4. Ni gute twakwirinda ingaruka ziterwa n'ubushyuhe cyangwa urumuri?



Uvumbuye iki muri iri somo?

Mvumbuye ko

Ubushyuhe butera ingaruka zikurikira:

- Gutakaza amazi menshi y'ibinyabuzima;
- Kwangiza/gushiririza ibyo kurya batetse;
- Kumisha ibimera ku misozi/mu murima;
- Gutwika imisozi (imiriro yo ku misozi).

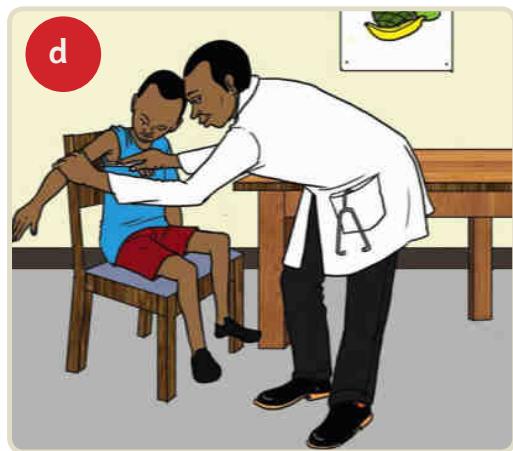
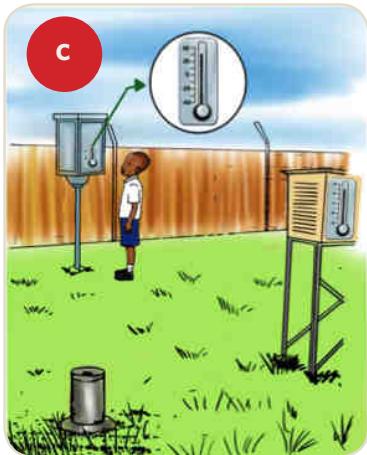
7.9

Ni ayahe moko y'ibipimo by'ubushyuhe uzi?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, **c** na **d**).
2. Amashusho **a**, **b**, **c** na **d** arerekana iki?
3. Ugendeye ku mashusho **a**, **b**, **c** na **d** tandukanya amoko y'ibipimo by'ubushyuhe usanga ku mashusho akurikira hasi.
4. Ni akahe kamaro k'ibipimo by'ubushyuhe?
5. Ni ibihe bice bigize igipimo cy'ubushyuhe?





Uvumbuye iki muri iri somo?

Mvumbuye ko

Amoko y'ibipimo by'ubushyuhe ari atatu:

- Igipimo cyo kwa muganga
- Igipimo cyo muri laboratwari
- Igipimo cyo mu bumenyi bw'ikirere

Akamaro k'igipimo cy'ubushyuhe ari kwerekana ingano y'ubushyuhe nyakuri bw'umuntu, ikintu cyangwa ahantu.

Igipimo cy'ubushyuhe kigizwe n'ibice bitatu: agatembo, umutwe n'igihimba.

7.10 Ni gute napima ubushyuhe bw'umubiri wange?

Igikorwa

1. Itegereze aya mashusho akurikira (**a**, **b**, **c** na **d**).
2. Amashusho **a**, **b**, **c** na **d** arerekana iki?
3. Pima ubushyuhe bw'umubiri wawe ukurikije izi ntambwe:
 - Kunguta igipimo cy'ubushyuhe kugeza kikweretse umubare 0 .
 - Shyira igipimo mu kwaha utegereze iminota itatu,
 - Vana igipimo cy'ubushyuhe mu kwaha maze usome imibare igipimo kikwerekwa.





c



d

Uvumbuye iki muri iri somo?

Mvumbuye ko

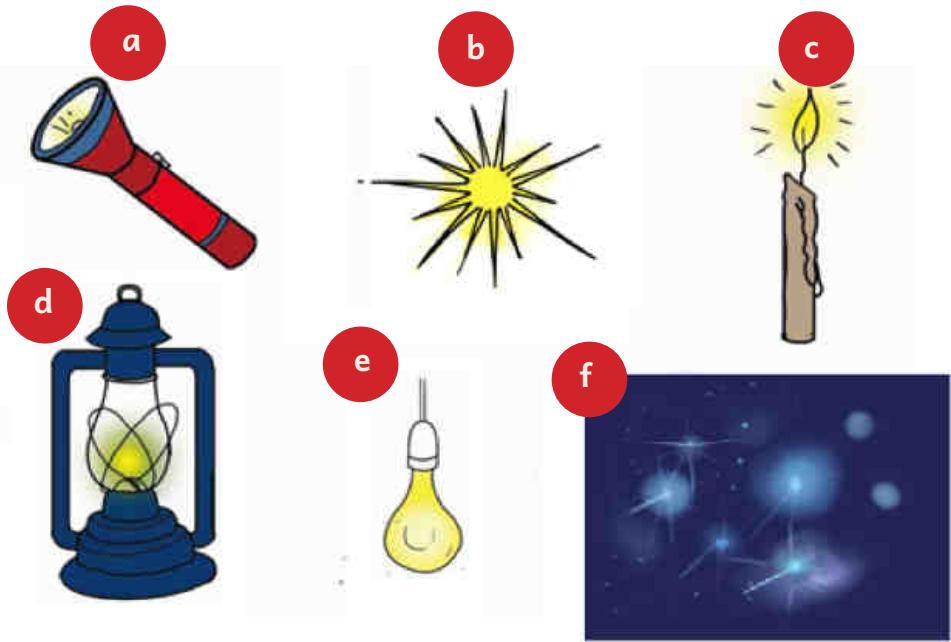
Gupima ubushyuhe bw'umubiri w'umuntu ukurikiza izi ntambwe:

- Kugarura igipimo kuri 0;
- Gushyira igipimo mu kwaha;
- Gusoma imibare y'igipimo cy'ubushuye nyuma y'iminota 3.

7.11 Ni irihe sano riri hagati y'ibitanga urumuri n'ibitanga ubushyuhe?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a, b, c, d, e, f na g**).
2. Amashusho **a, b, c, d, e, f na g** arerekana iki?
3. Ni ibihe bitanga urumuri n'ubushyuhe usanga ku mashusho **a, b, c, d, e, f na g**.
4. Ese ibitanga urumuri byose, bitanga n'ubushyuhe? Sobanura igisubizo cyawe utanga n'ingero.



Uvumbuye iki muri iri somo?

Mvumbuye ko

- Byinshi mu bitanga urumuri bitanga n'ubushyuhe.

Urugero: izuba, isitimu, umuriro, buji, itadowa, itara rya peterori, itara ry'amashanyarazi, umwambi w'ikibiriti, itara rya gazi, inkwi mu ziko n'ibindi.

- Hari uodusimba bita inyenyeri dutanga urumuri ariko tudatanga ubushyuhe.

Isuzuma

1. Rondora ibintu bitanu bitanga ubushyuhe.
2. Ni iki gitandukanya urumuri n'umwijima?
3. Hitamo interuro nzima:
 - a) Igicucu ni ukubura k'urumuri.
 - b) Ibitanga urumuri byose bitanga n'ubushyuhe.
 - c) Amaso yacu ashobora kwangirika iyo dusomeye ku zuba ry'igikatu.
 - d) Igipimo cy'ubushyuhe bw'umuntu utarwaye ni 40.
4. Tanga ingero ebyiri zigaragaza ibibi by'ubushyuhe ku bidukikije no ku matungo.
5. Erekana uko bakoresha igipimo cy'ubushyuhe cyo kwa muganga?
6. Rondora ibintu 4 bitanga urumuri ariko bidatanga ubushyuhe.

UMUTWE WA 8

Ibyumviro

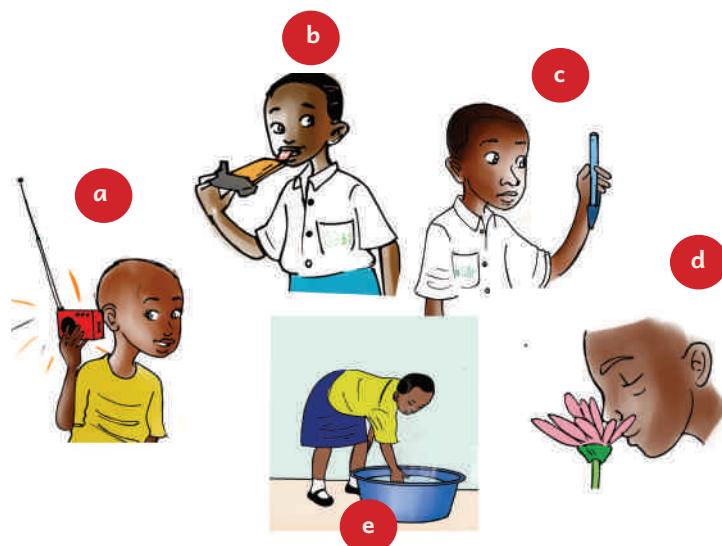
Umubiri w'umuntu ufile ibice bitandukanye kandi byuzuzanya mu gutanga umuntu wuzuye. Kugira ngo umuntu abone amakuru aturutse ku bimukikije bisaba ko ibyumviro by'umubiri we byose biba bikora neza. Uyu mutwe uragufasha kumenya akamaro k'ibyumviriro by'umubiri ndetse n'uburyo bwo kubifata neza.

8.1

Ni akahe kamaro k'ibyumviro by'umubiri w'umuntu ?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a**, **b**, **c**, **d** na **e**).
2. Amashusho **a**, **b**, **c**, **d** na **e** arerekana iki?
3. Aya mashusho akweretse ibyumviro by'umuntu bingahé ?
4. Vuga izina rya buri cyumviro cy'umubiri.



Uvumbuye iki muri iri somo?

Mvumbuye ko

Ibyumviro by'umubiri w'umuntu ari bitanu (5): **ijisho, ugutwi, ururimi, uruhu n' izuru.**

Akamaro k'ibyumviro by'umubiri w'umuntu.

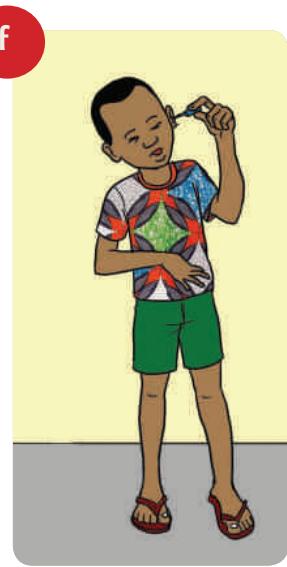
- **Ijisho**, akamaro k'ijisho ni **ukureba** ;
- **Ugutwi**, akamaro k'ugutwi ni **ukumva amajwi**;
- **Ururimi**, akamaro k' ururimi ni **ukumva icyanga** no **gufasha umuntu kumira**;
- **Izuru**, akamaro k'izuru ni **uguhumurirwa** no **gufasha umuntu guhumeka**;
- **Uruhu**, akamaro k'uruhu ni **ukumenya ikintu gikoze cg kigeze ku mubiri , kurinda umubiri, no kuringaniza ubushyuhe bw'umubiri.**

8.2

Ni gute nafata neza ibyumviro by'umubiri wange?

Igikorwa

1. Itegerezze aya mashusho akurikira (**a, b, c, d, e na f**)
2. Amashusho (**a, b, c, d, e na f**) arerekana iki?
3. Erekana aho bitemewe bitari byiza ku bikorwa biri kuri ayo mashusho (**a, b, c, d, e na f**)
4. Sobanura uko wafata neza ibyumviro byawe.



Uvumbuye iki muri iri somo?

Mvumbuye ko

Uburyo bwo gufata neza ibyumviro ari:

- Gukaraba amazi n'isabune umubiri wose;
- Guhanagura mu matwi wifashishije agatambaro gafite isuku
- Koza mukanwa umaze kurya;

- Gusukura amazuru wifashishije agatambaro gafite isuku umuswari (umushwari);
- Gukaraba amazi meza n' isabune mu maso;
- Kwivuza igihe urwaye.

Isuzuma

1. Huza icyumviro n'igishushanyo cyacyo gikwiye

Kureba



Kumva



Guhumurirwa



Kuryoherwa



Gukorakora



2. Subiza “**yego**” cyangwa “**oya**”:

- Ni byiza gusukura ugutwi wifashishije agati gafite ipamba.
- Ni ngobwa koza amenyo buri igihe umaze kurya.
- Umuziki usakuza cyane wangiza amatwi.
- Amazuru ashobora gutuma umenya icyo ku muturanyi batetse.

Ibitabo byifashishijwe mu gutegura iki gitabo

1. MINEDUC (1997). *Integanyanyigisho y'Ubumenyi n'Ikoranabuhanga Riciriritse mu mashuri abanza*. Ikigo cy'Igihugu gishinzwe Integanyanyigisho, Kigali.
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3. MINEDUC (2015). *Competence – Based Curriculum Framework, Pre-primary to Upper Secondary*. Rwanda Education Board, Kigali.
4. MINEDUC (2015). *Integanyanyigisho y'Ubumenyi n'Ikoranabuhanga Riciriritse, Ikiciro Cya Mbere Cy'amashuri Abanza*. Rwanda Education Board, Kigali.