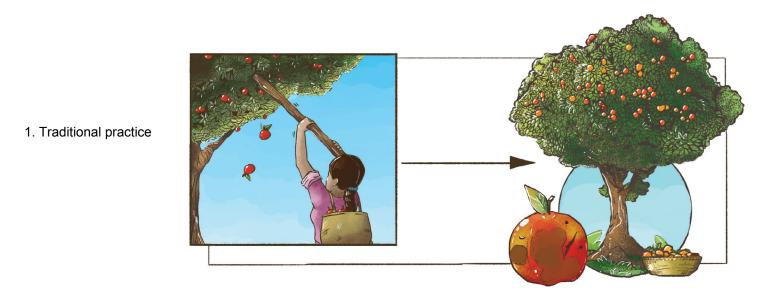
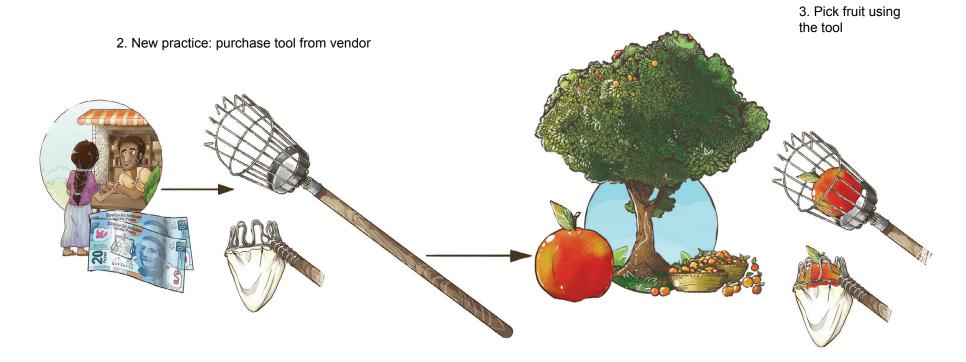
Lesson: New tool to harvest tree fruits without climbing trees



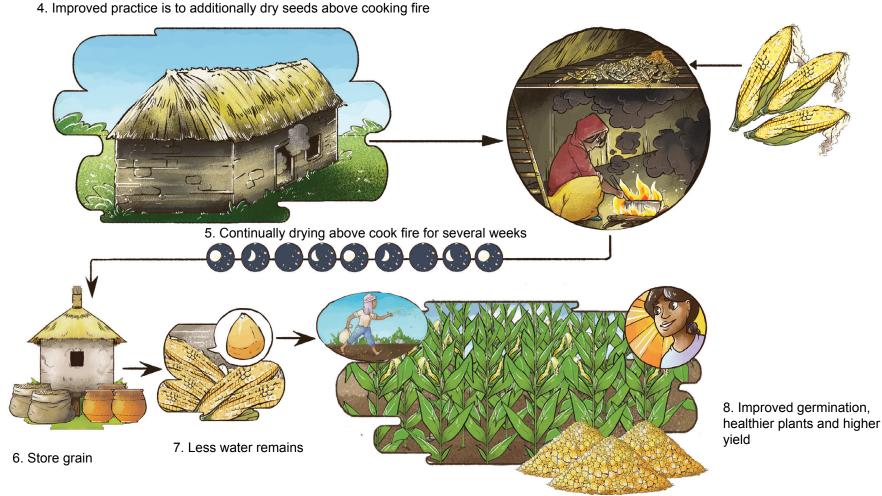


Lesson: Drying seeds prior to storage above the cooking fire will improve subsequent germination, reduce disease during storage and improve subsequent crop yield

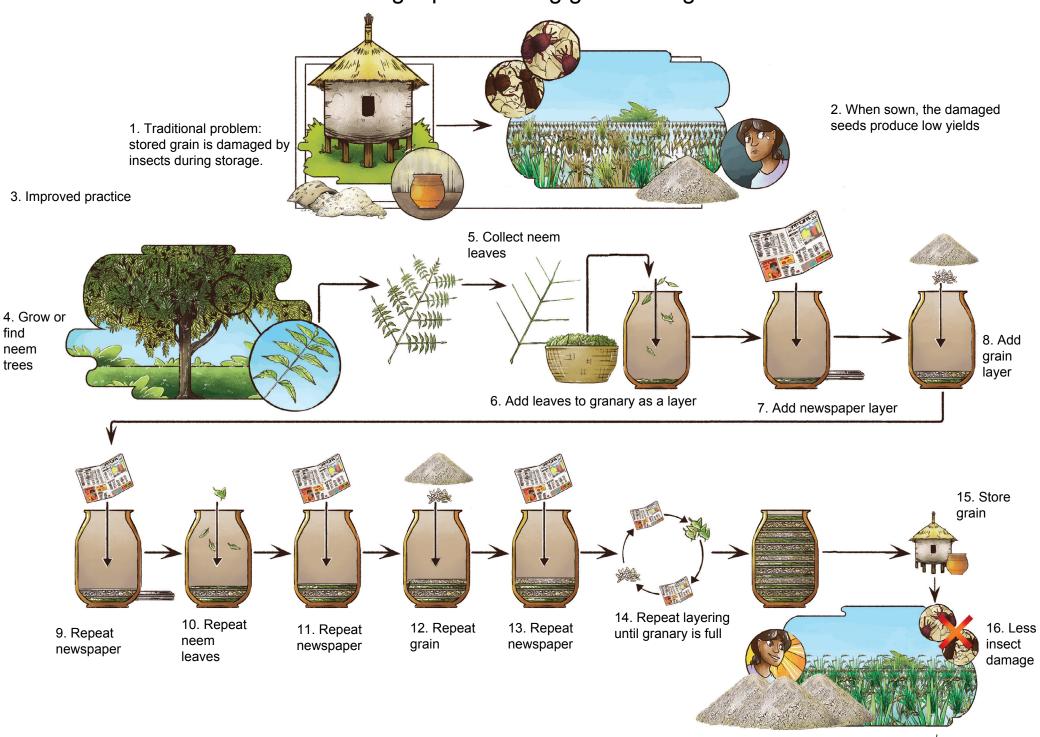
3. Low yield

1. Traditional practice is to sun dry only prior to storage

> 2. Some moisture remains which promotes molds and insects



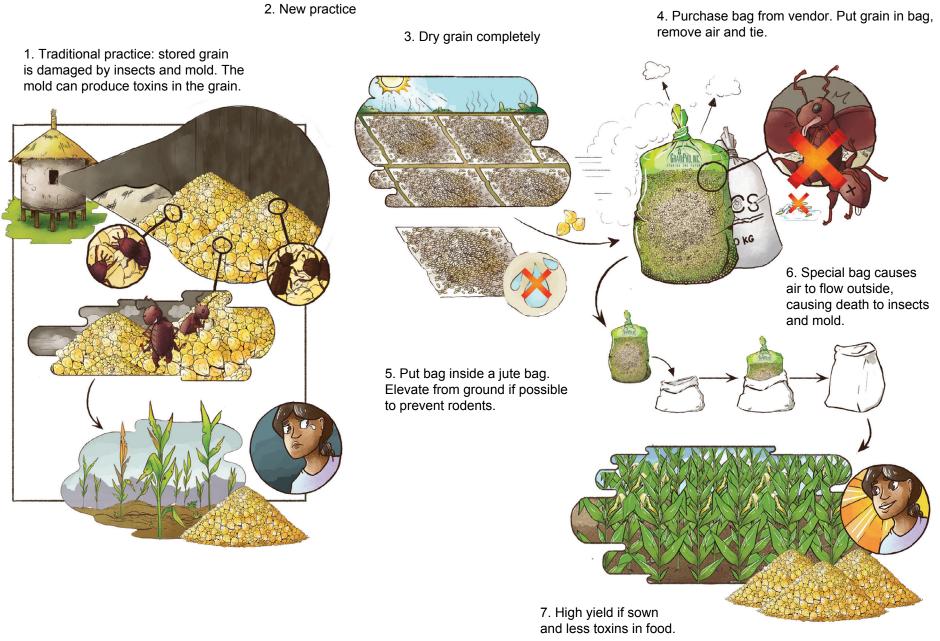
Lesson: Neem tree leaves fight pests during grain storage



9.3

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Lesson: Special bags can be used to store grain which reduce oxygen inside bag which prevents insects and fungal molds from surviving, which also reduces toxins.



8. Re-use bag many times.

Lesson: Improved storage of grain permits selling of grain when prices are higher, especially when combined with asking for help from a friend who lives in the nearby city 1. Traditional practice: everyone 2. Farmer gets harvests and sells grain little money at same time for grain to middleman and hence 5. Friend should speak to 6. If price is low, city friend sales price is low 4. Farmer should call merchant in city to inquire about grain pric should call farmer friend in city and tell her to wait 3. Improved practice: improved storage 7. Farmer should not sell grain to of grain such as in Grainpro or Purdue middleman when price is low storage bags 8. Time passes 9. Friend should again speak 11. When price is high 10. If price is low, to city merchant in city to inquire farmer should sell farmer should not about grain price sell

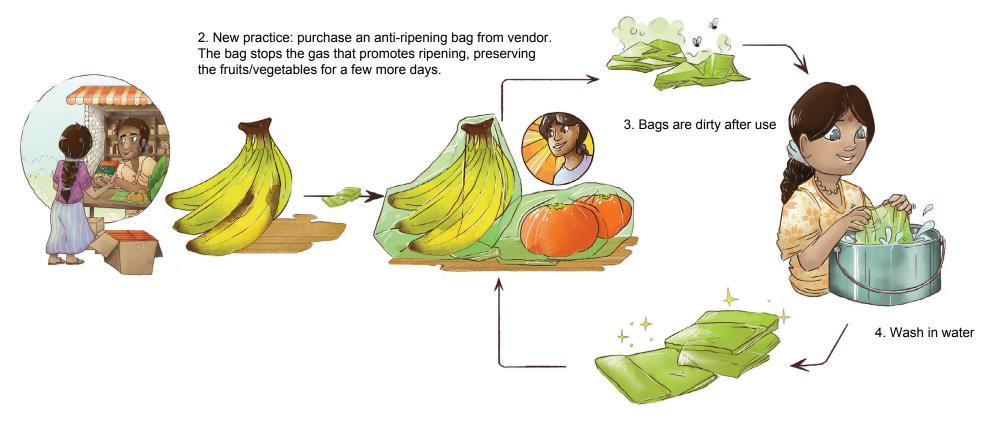
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Lesson: Special small green bags may prevent fruits and vegetables from spoiling/ripening too fast

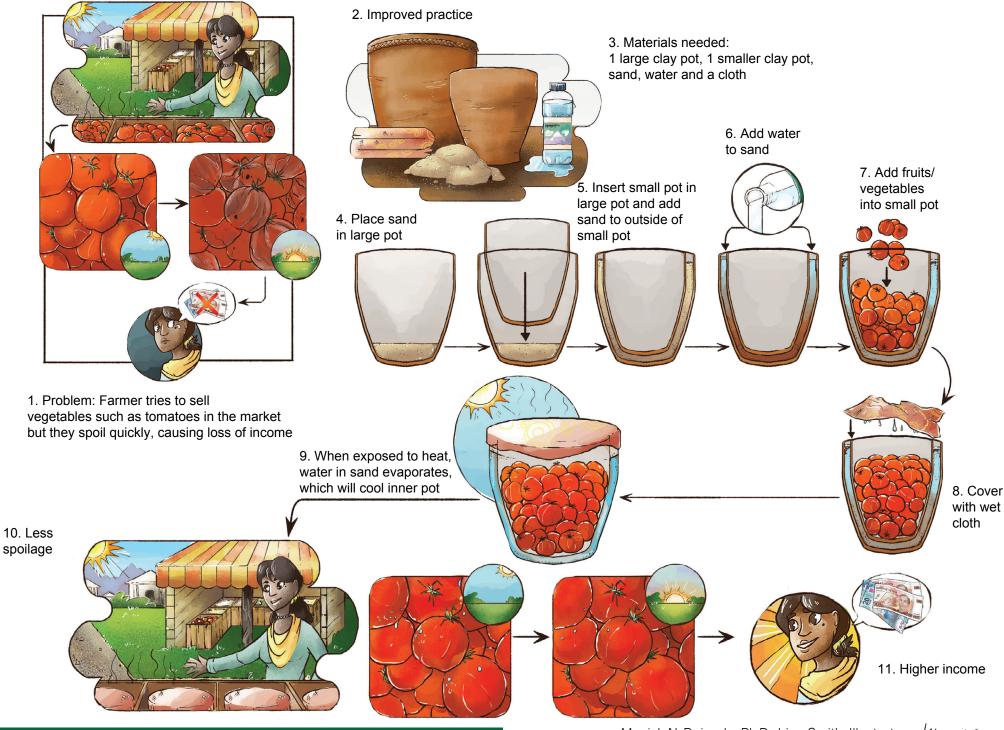
1. Traditionally, fruits/vegetables spoil quickly: when one fruit/vegetable starts to ripen, it releases a gas which causes nearby fruits/vegetables to ripen



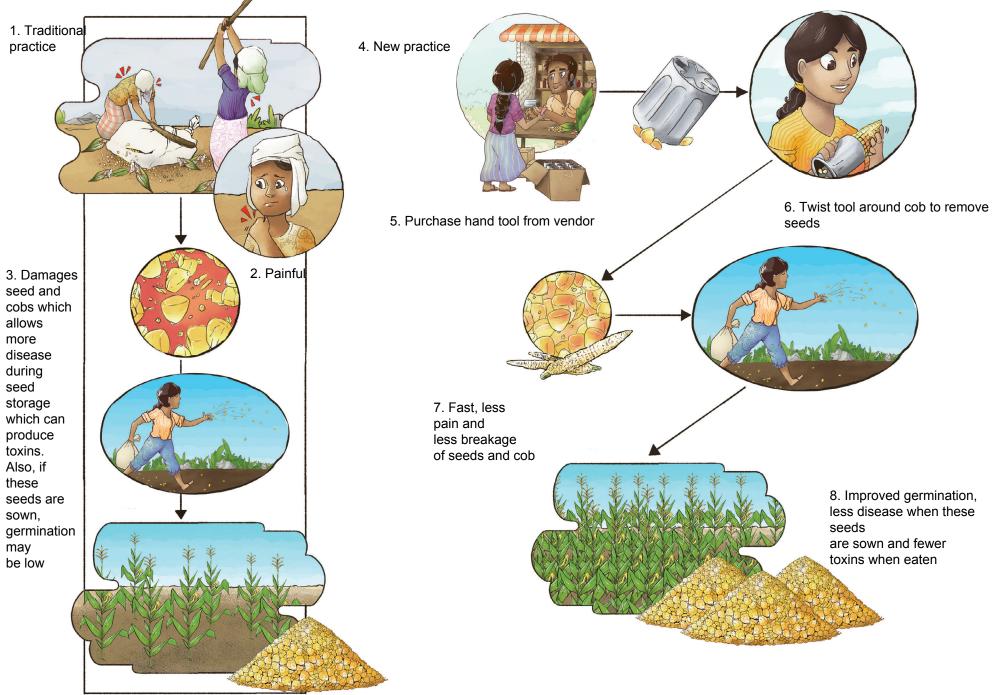


5. Re-use many times

Lesson:To prevent spoilage of fruits and vegetables, a simple clay cooler may be built.



Lesson: Instead of removing grains of maize by beating sacks with a stick, a hand tool can be used which is faster and less painful, and results in seeds which are healthier with fewer toxins



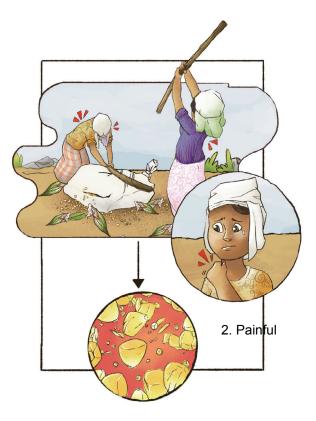
9.8

Lesson: Instead of removing grains of maize by beating sacks with a stick, a hand tool can be made from a tin can which is faster and less painful and results in less toxin in the grain. 4. New tool: hand maize sheller: remove lid from can, then make cuts with a knife and fold inward 1. Traditional practice 6. Seeds and cobs do not break. Less human pain 2. Painful 3. Damages seed and cobs which allows more disease during 5. Insert seed cob in tool and rotate cob storage which can produce toxins. 7. Improved germination, Also, if less disease when these seeds these are sown and fewer seeds are toxins when eaten sown, germination may be low

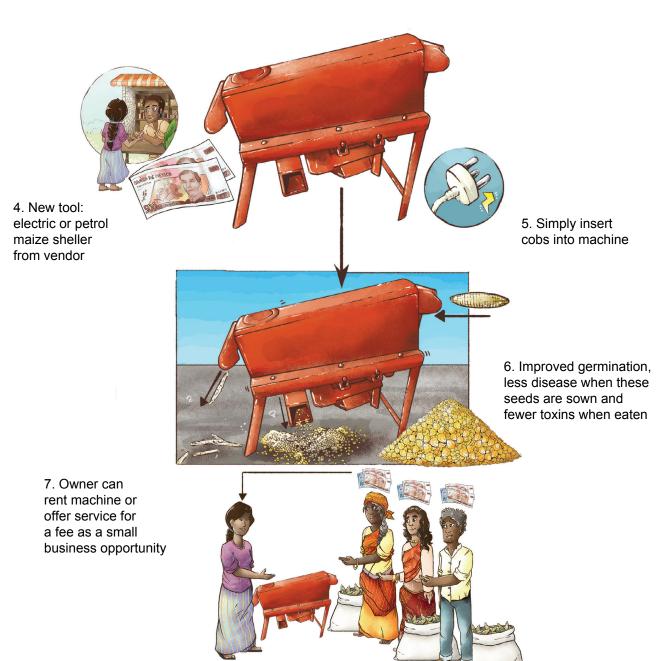
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Lesson: New tools from vendor to remove maize seeds from cob

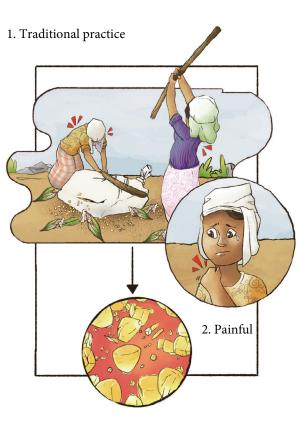
1. Traditional practice



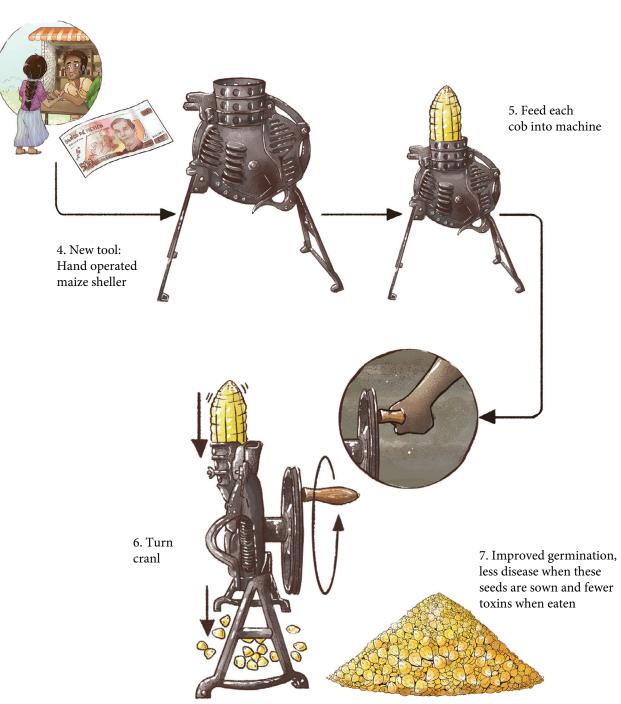
3. Damages seed and cobs which allows more disease during seed storage which can produce toxins. Also, if these seeds are sown, germination may be low



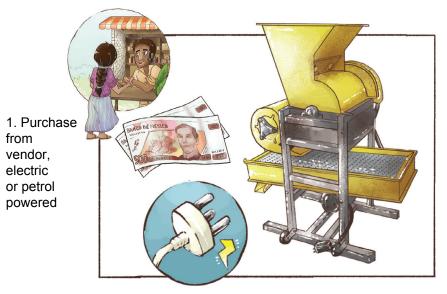
Lesson: New tools from vendor to remove maize seeds from cob

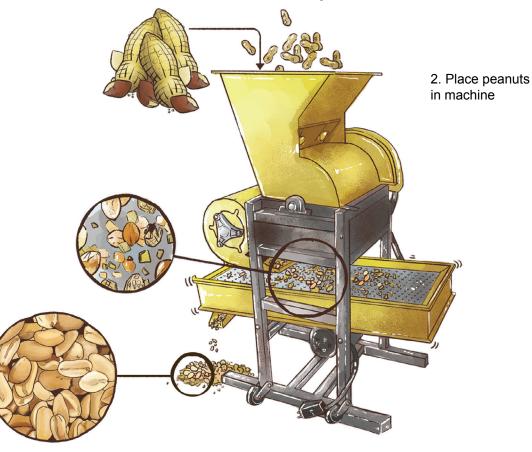


3. Damages seed and cobs which allows more disease during seed storage which can produce toxins. Also, if these seeds are sown, germination may be low

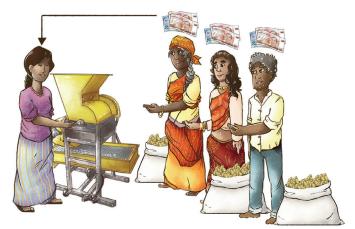


Lesson: New machine from vendor to remove shell from peanuts

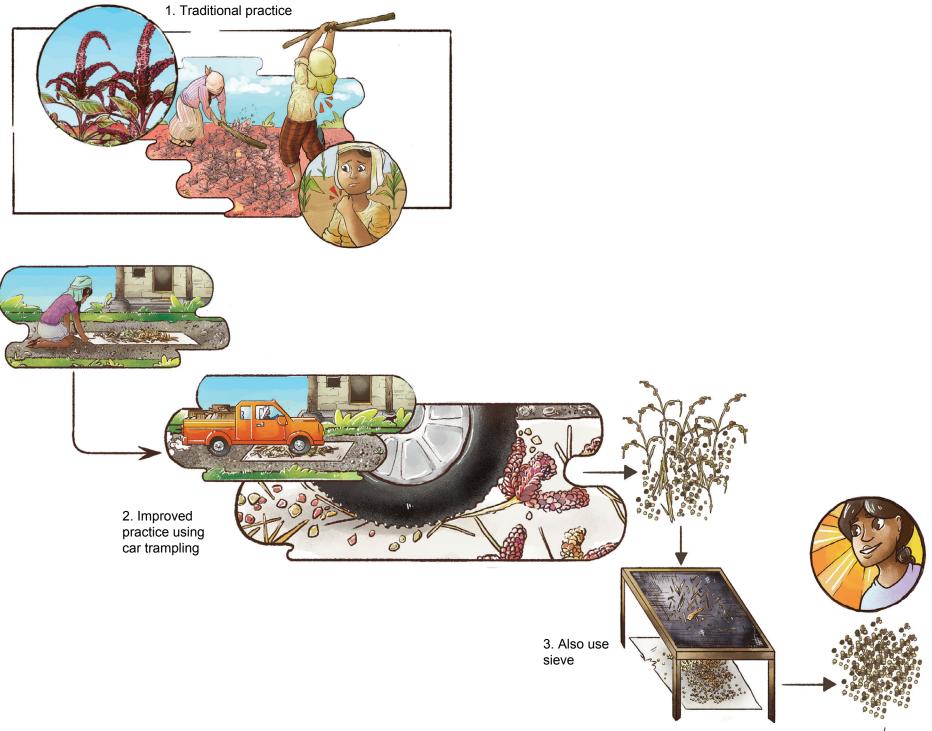




3. Owner can rent machine or offer service for a fee as a small business opportunity

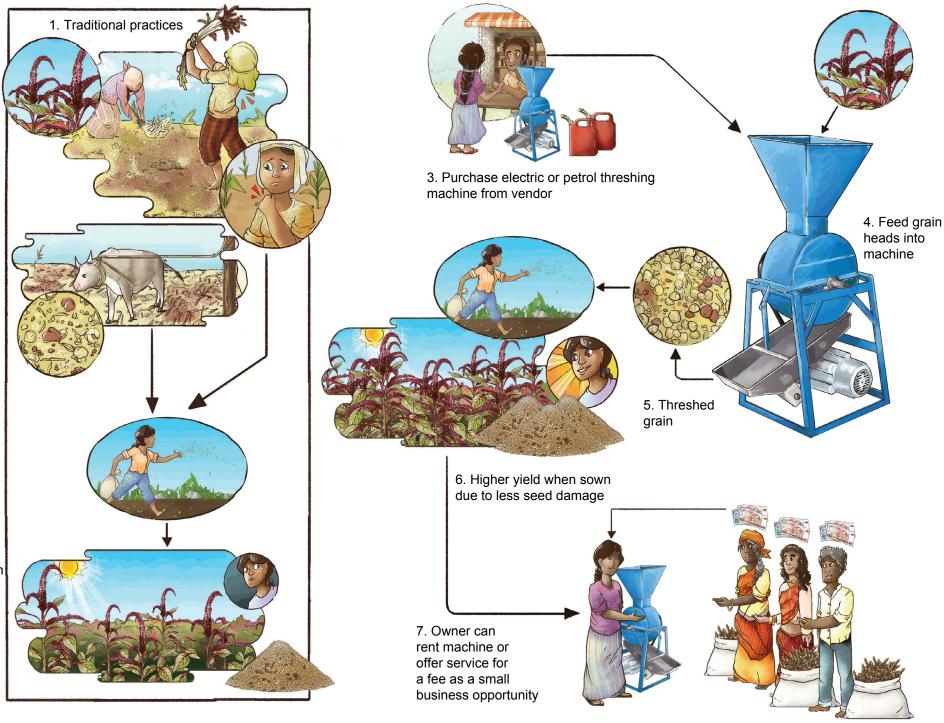


Lesson: Instead of manual threshing of grain, grain may be placed on a road to reduce labour

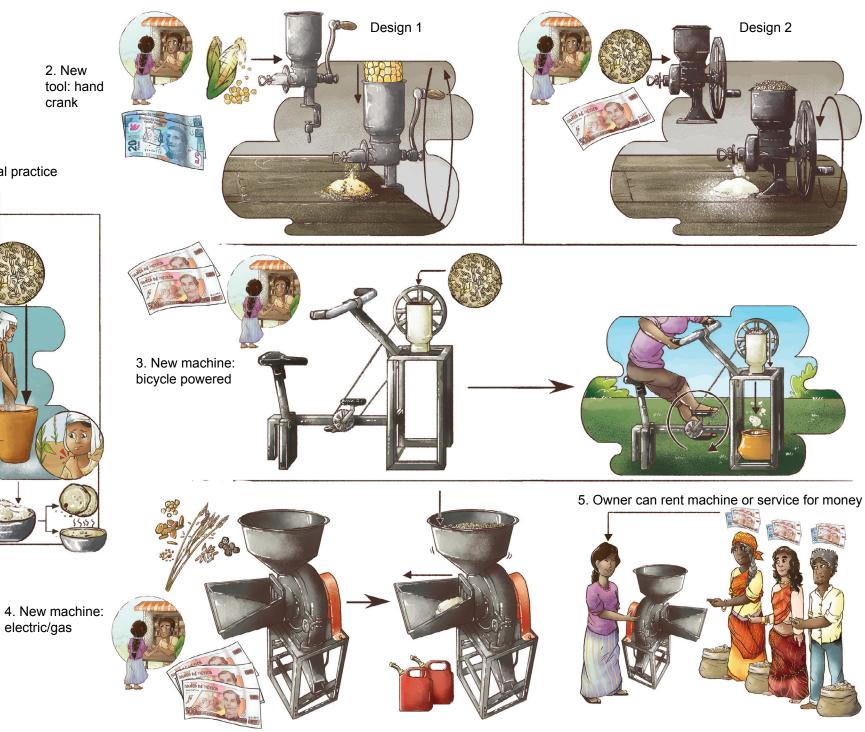


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Lesson: Instead of threshing millet grain manually, a machine can be used.



2. Lower yield when sown due to seed damage



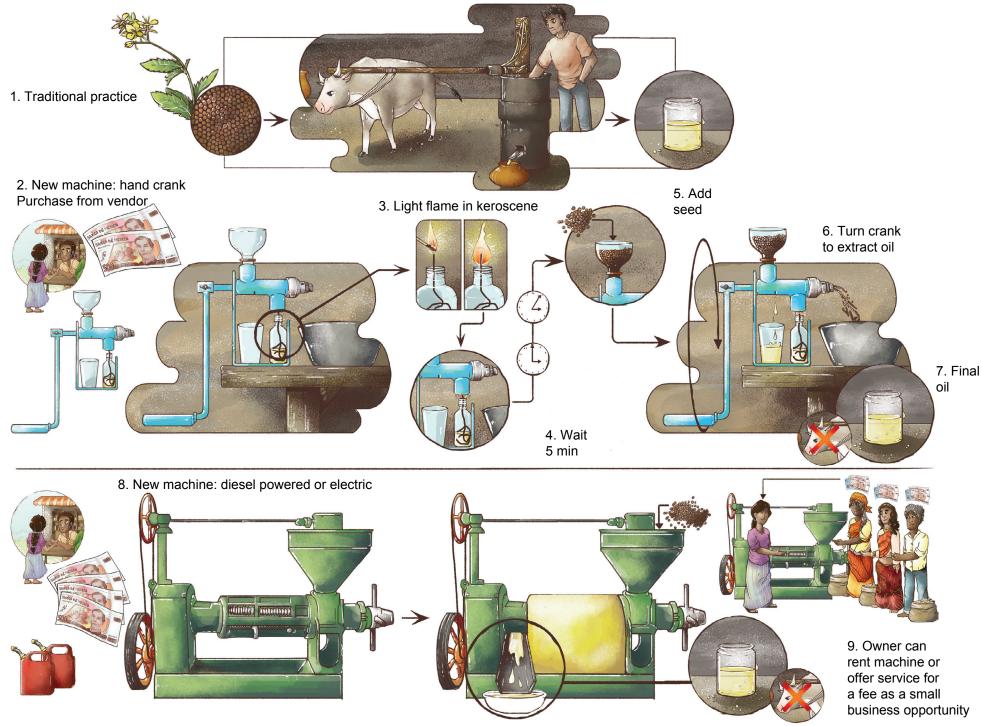
electric/gas

2. New

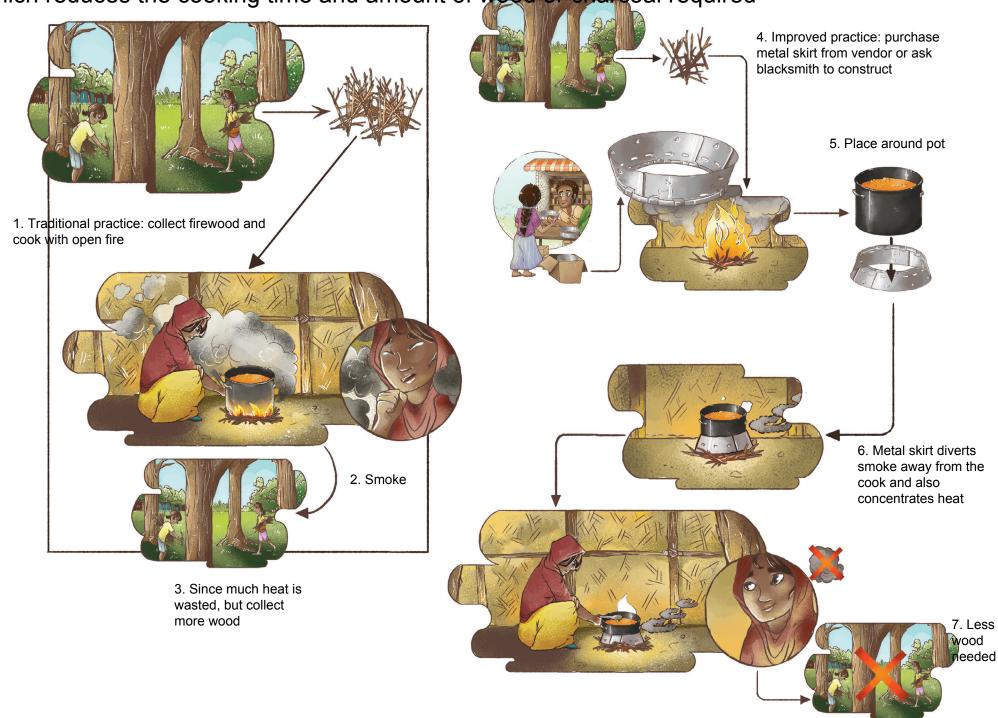
crank

1. Traditional practice

Lesson: New machines may be used to extract cooking oil from seeds



Lesson: Use of a metal skirt around the cooking fire can reduce smoke and raise the heat, which reduces the cooking time and amount of wood or charcoal required



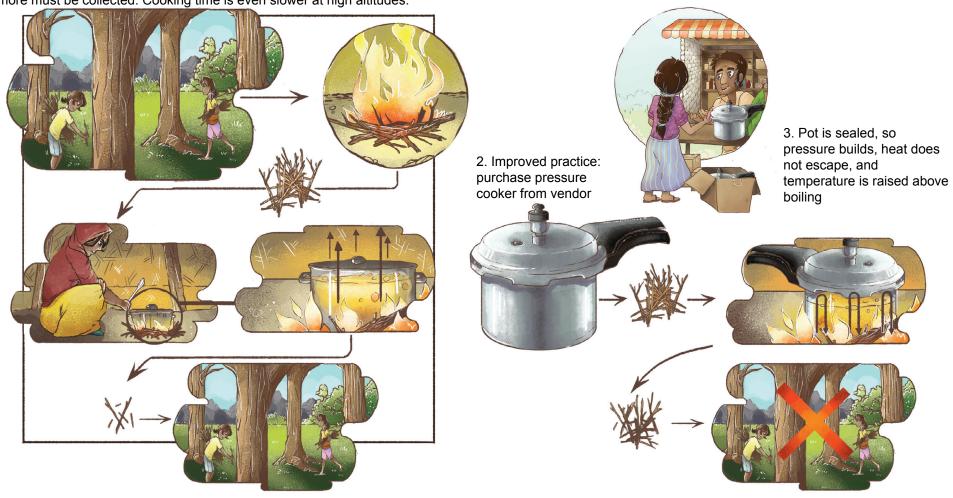
9.15

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Lesson: Use of a pressure cooker can raise the heat to reduce the cooking time, and the amount of wood or charcoal required especially in high altitudes

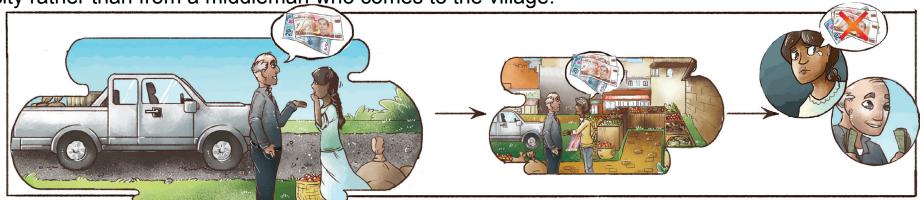
1. Traditional practice: collect firewood and cook using a regular pot which cooks at a low temperature and loses heat. Cooking time is slow and consumes firewood so more must be collected. Cooking time is even slower at high altitudes.



4. Cooking time is faster, consume less firewood or charcoal, so less wood needs to be collected

Lesson: It is better to obtain the selling price for farm harvest products from a friend or family member in

the city rather than from a middleman who comes to the village.



1. Traditional practice: middleman comes to the village and offers a low price for the farm harvest

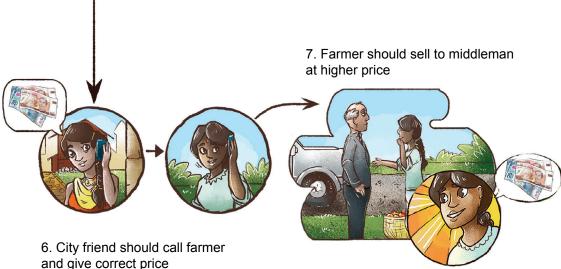
2. Middleman goes to city merchant and sells for a higher price

3. Farmer gets little money, but middleman gets more money

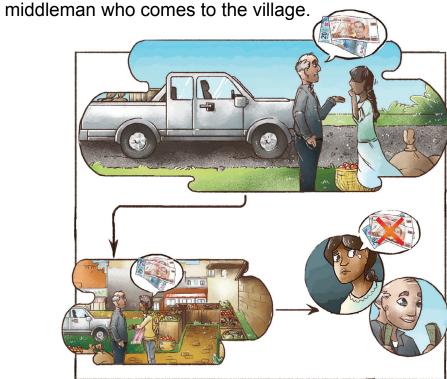


5. Friend should speak to merchant in city to inquire about grain price

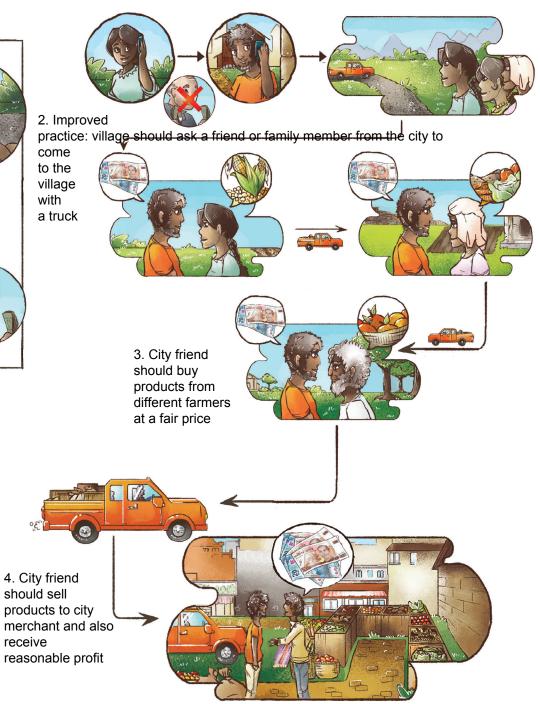
friend or relative in the city

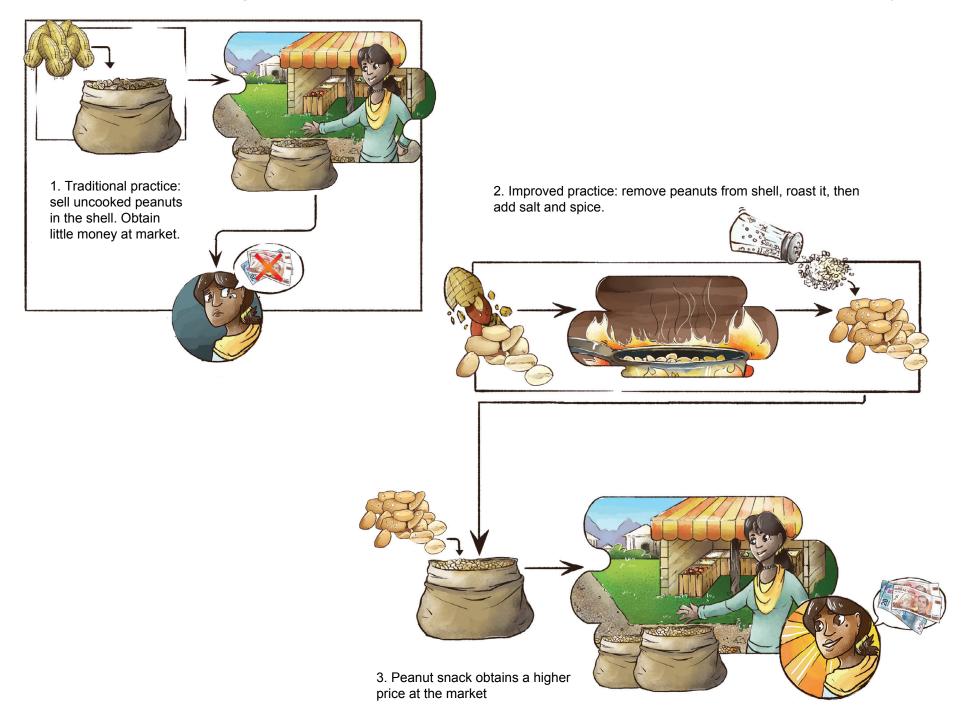


Lesson: It is better to sell farm harvest products directly to a friend or family member who lives in the city rather than to a



1. Traditional practice: middleman comes to the village and offers a low price for the farm harvest, then middleman goes to city merchant and sells for a higher price.





Lesson: Rather than selling harvested products in bulk, it is more profitable to package them

