



A Picture Book of Best Practices for Subsistence Farmers: South Asian version

August 2016

Manish N. Raizada, Ph.D.

University of Guelph

Illustrations by Lisa Smith

University of Guelph



Global Affairs
Canada

Affaires mondiales
Canada

IDRC
International Development
Research Centre



CRDI
Centre de recherches pour le
développement international

About the Author



Manish N. Raizada received his B.Sc. from the University of Western Ontario (Genetics) and Ph.D. from Stanford University (Plant Molecular Genetics). He held fellowship positions at The International Maize and Wheat Improvement Centre (CIMMYT) in Mexico City and at the California Institute of Technology. He is currently a professor in the Department of Plant Agriculture at the University of Guelph, Canada. Dr. Raizada is Founder of SAKGlobal (SAKs, Sustainable Agriculture Kits), an effort to bring inexpensive technologies to the world's 1 billion subsistence farmers. SAK kits are based on the principles of sustainable, ecological agriculture.

Manish can be contacted by email at raizada@uoguelph.ca

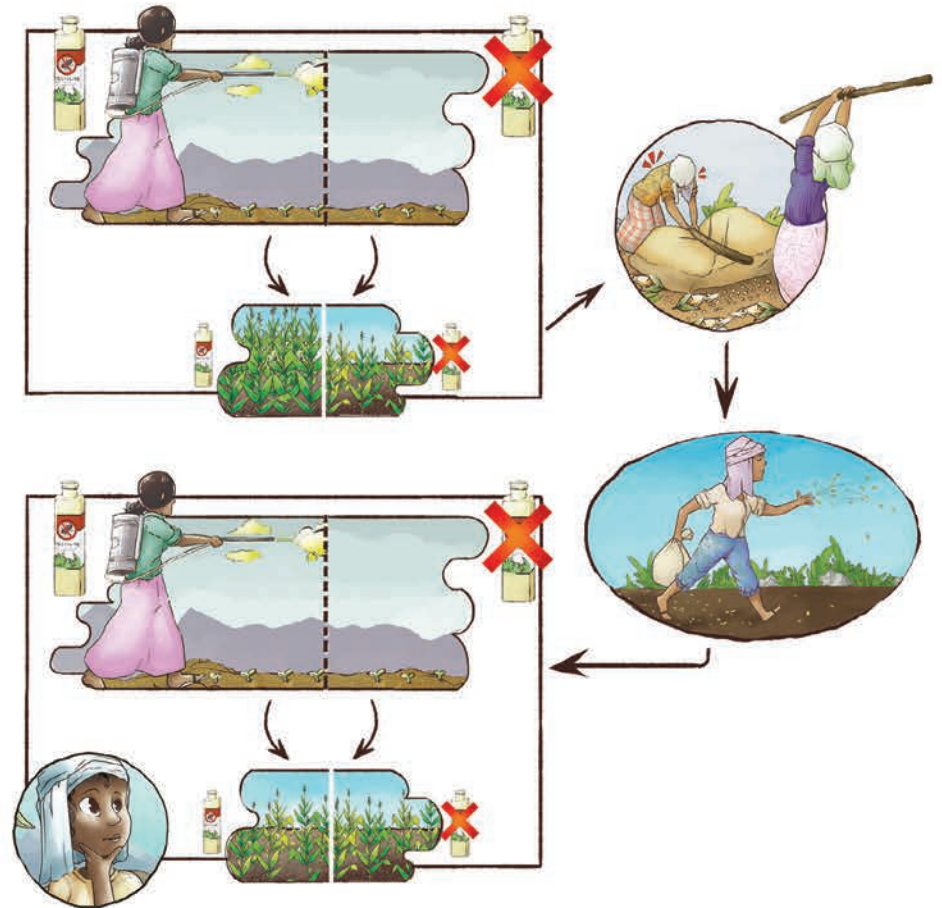
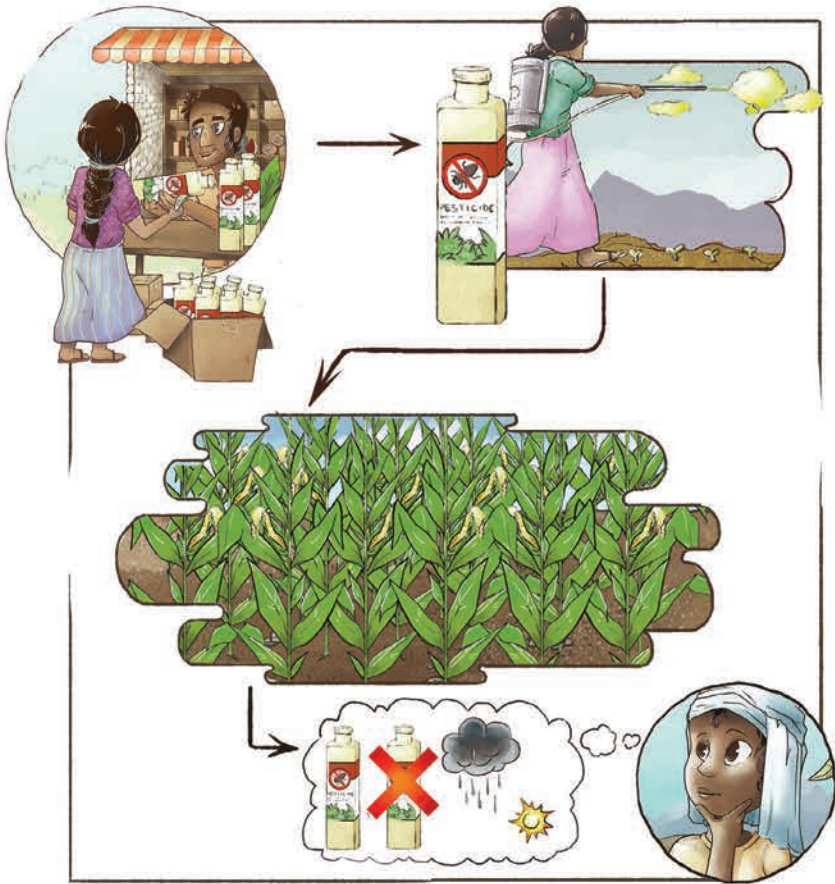
About the Illustrator

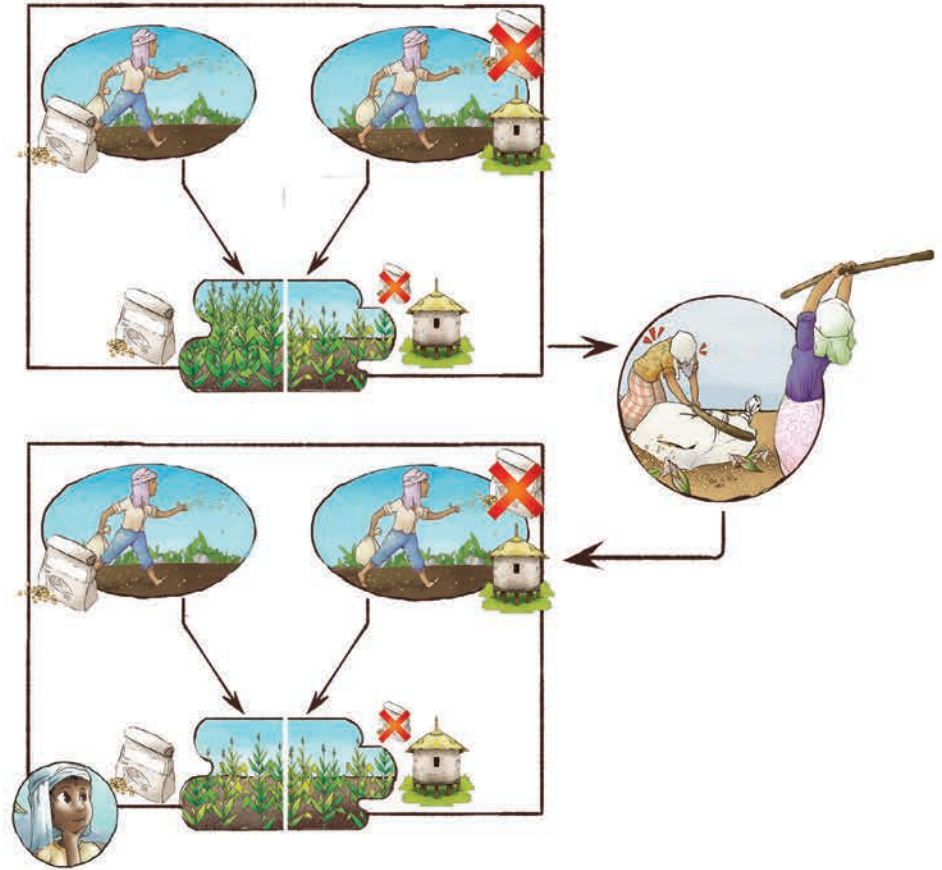
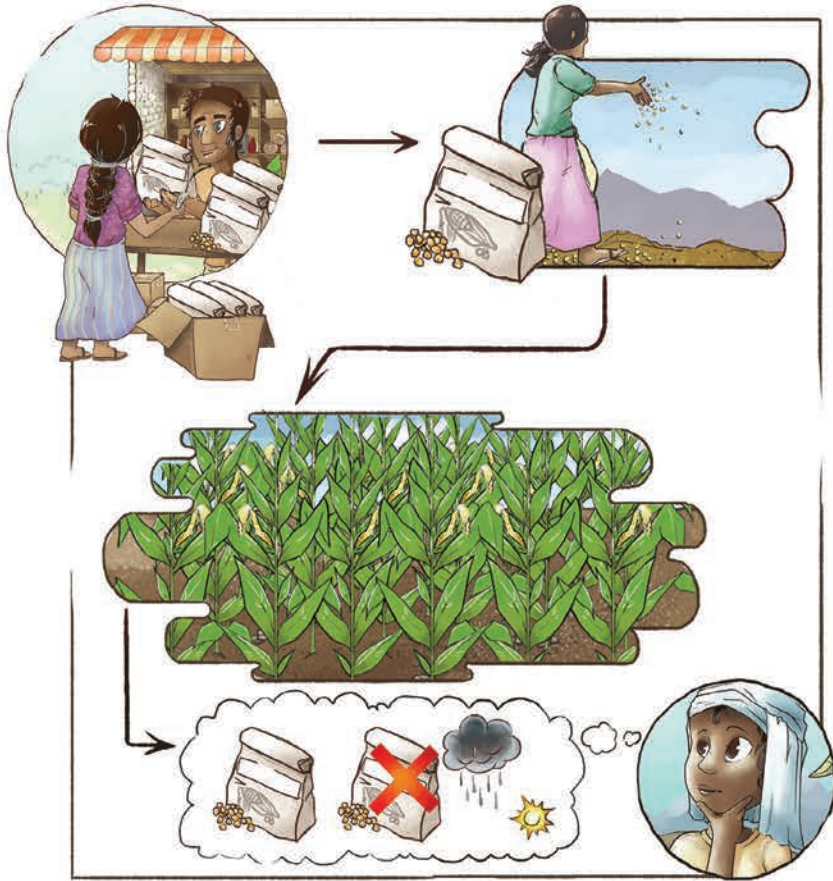


Lisa J. Smith graduated from the Graphic Design Diploma program at Conestoga College in Kitchener, Ontario, Canada in 2014, with her main focus in illustration. In early 2015, Lisa was selected as part of a national competition onto the SAKGlobal team as the illustrator for the picture book along with other illustrated materials. She has created illustrations related to microbiology, genetics, botany, agriculture and international development for scientific journals and presentations during her time with the University of Guelph.

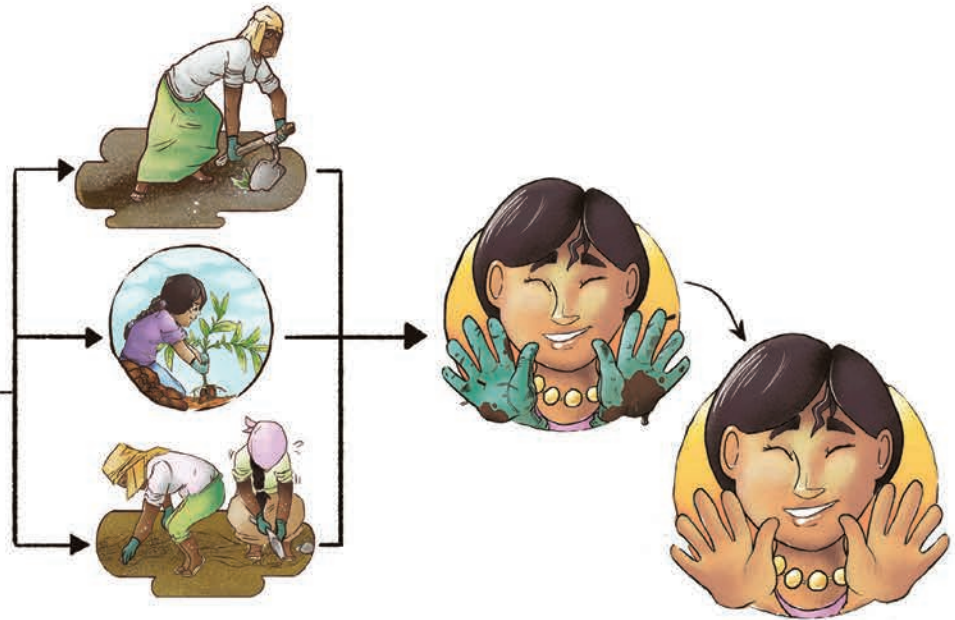
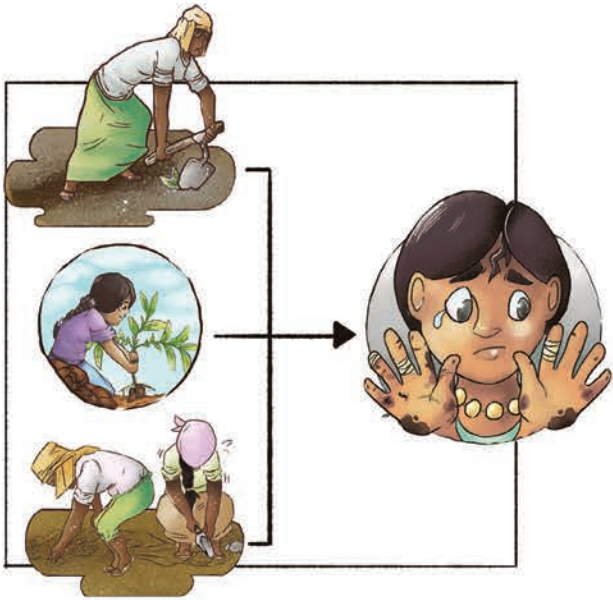
Lisa can be contacted by email at smithjaylisa@gmail.com

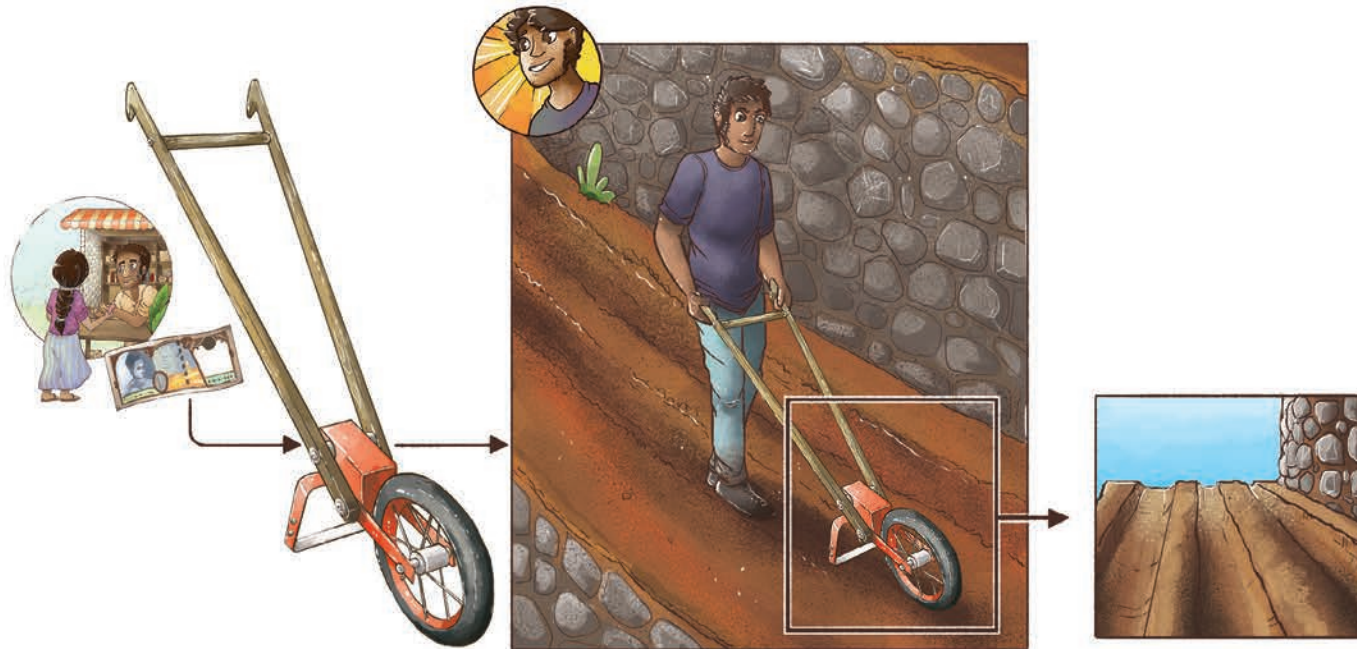
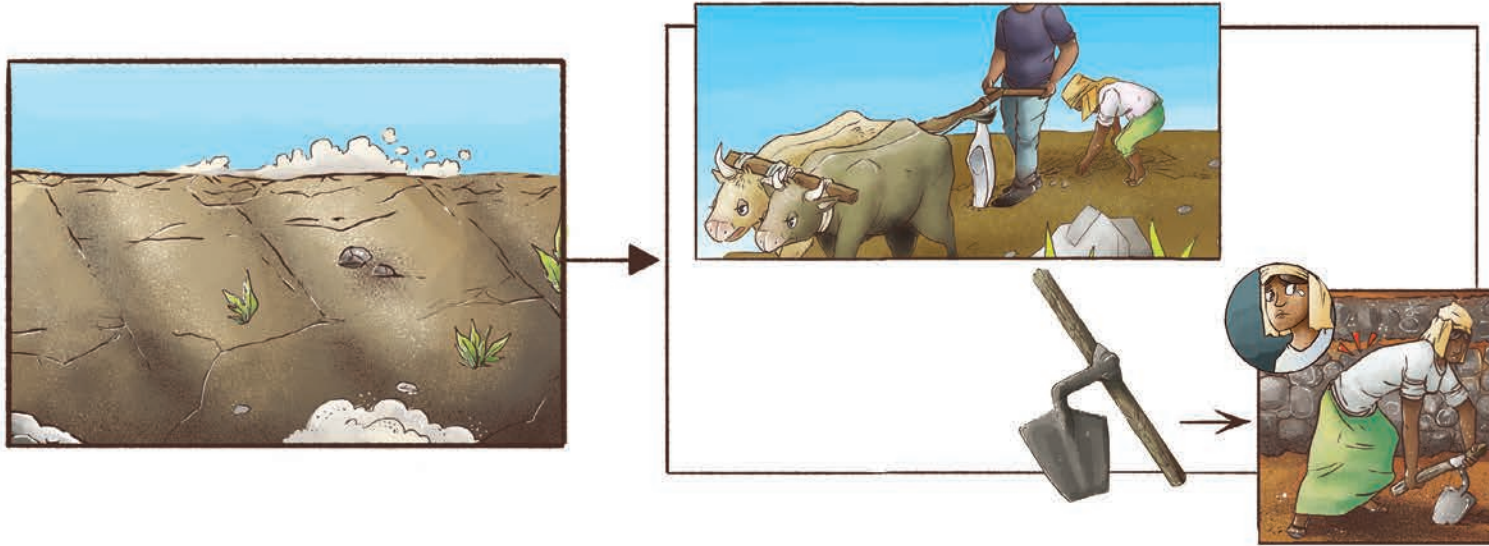
Chapter 1: Scientific Method

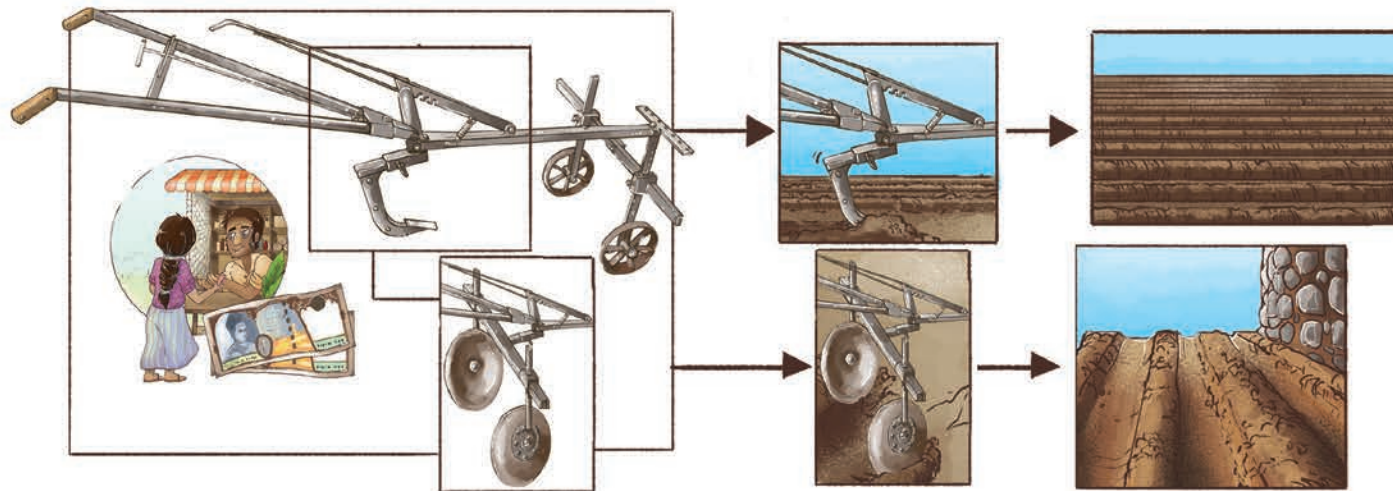
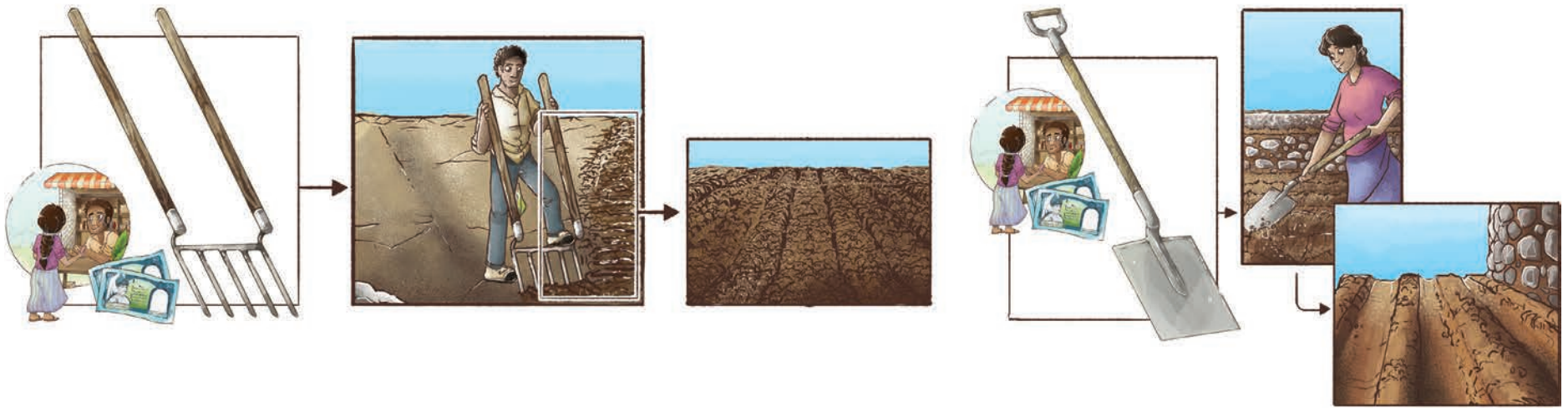


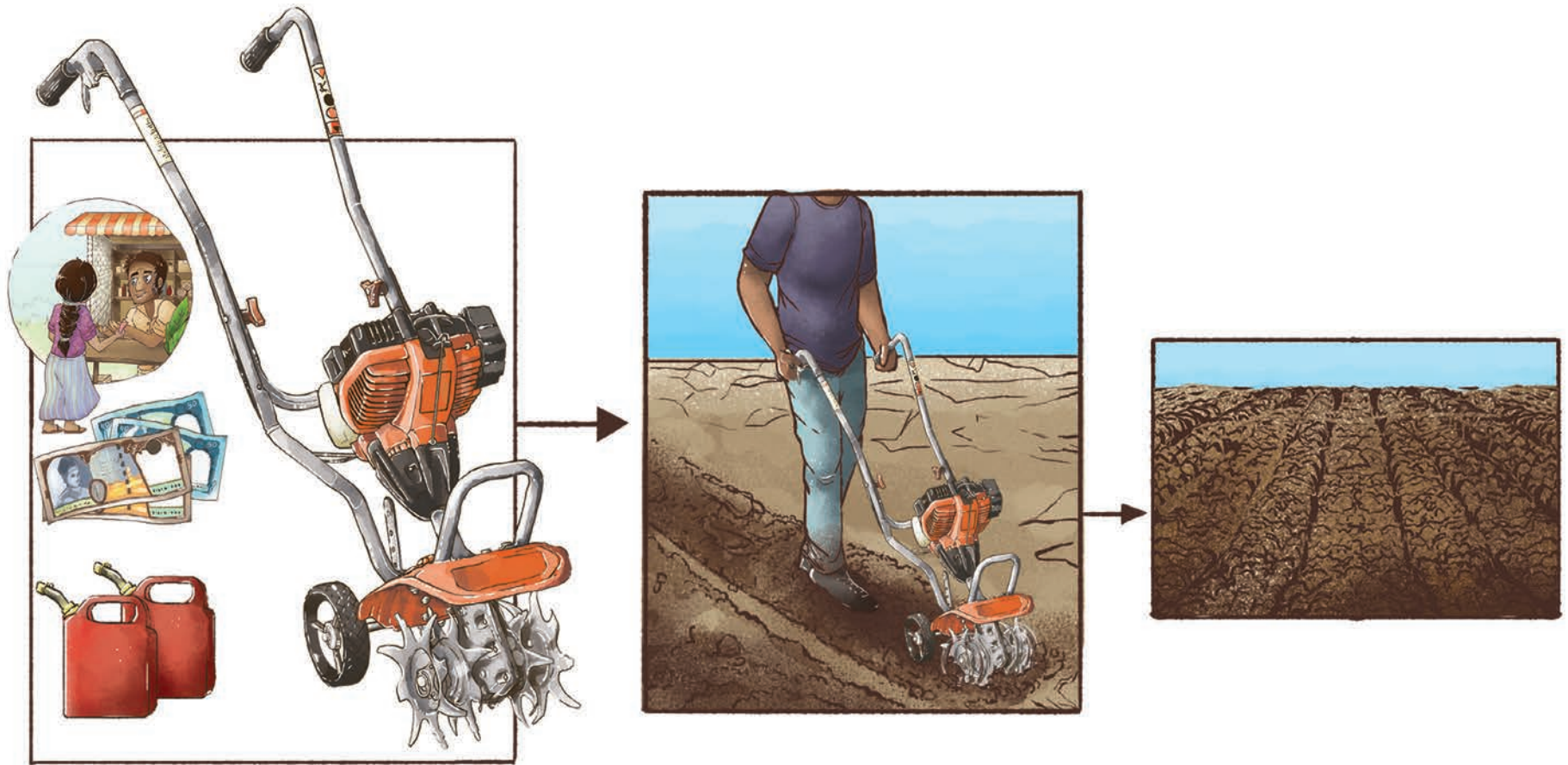


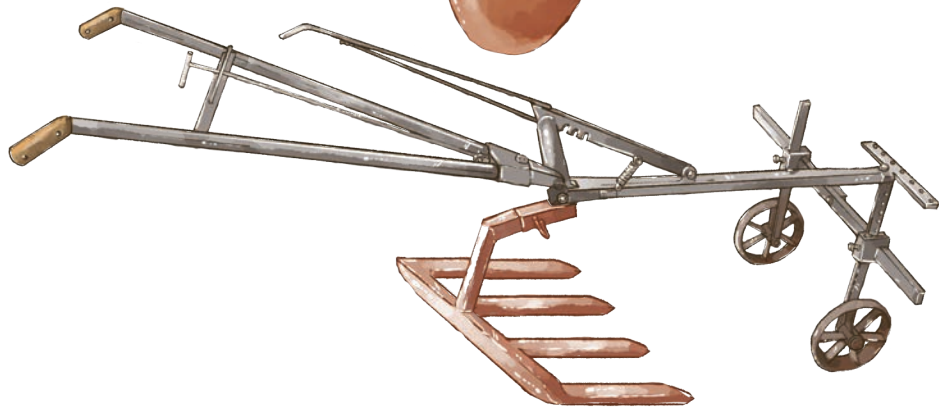
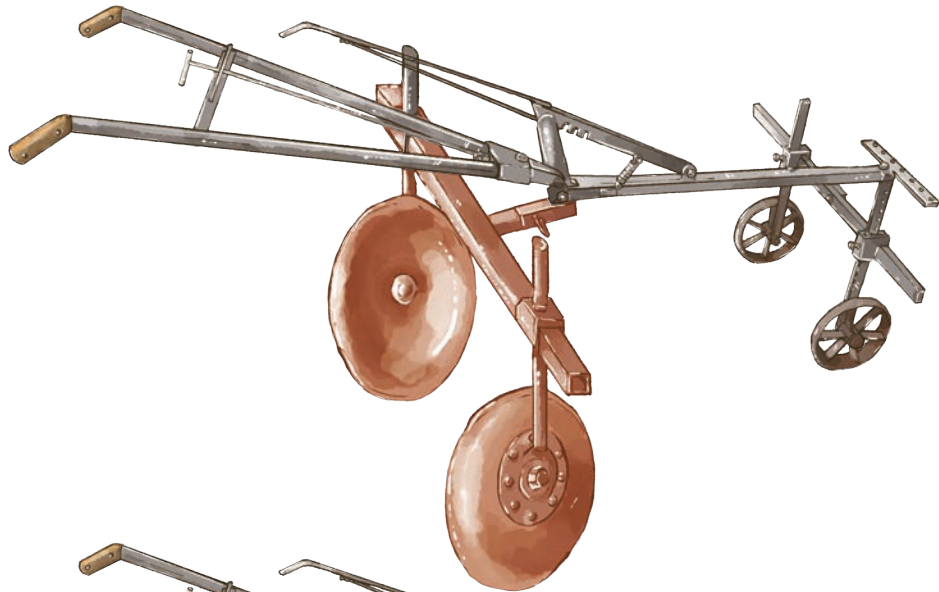
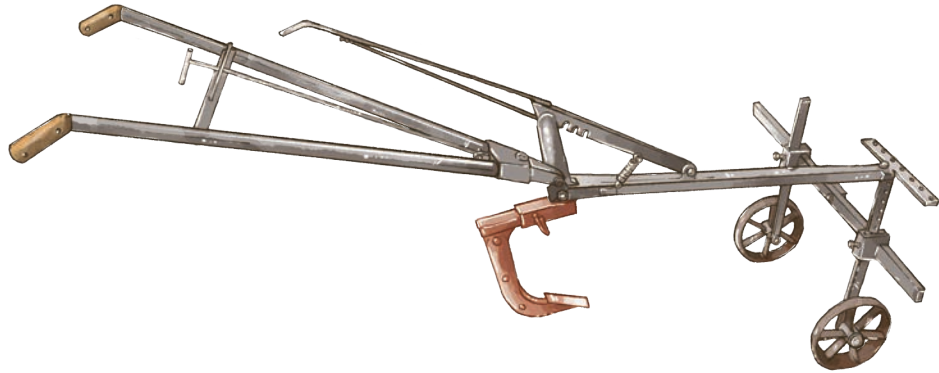
Chapter 2: Land Preparation & Sowing

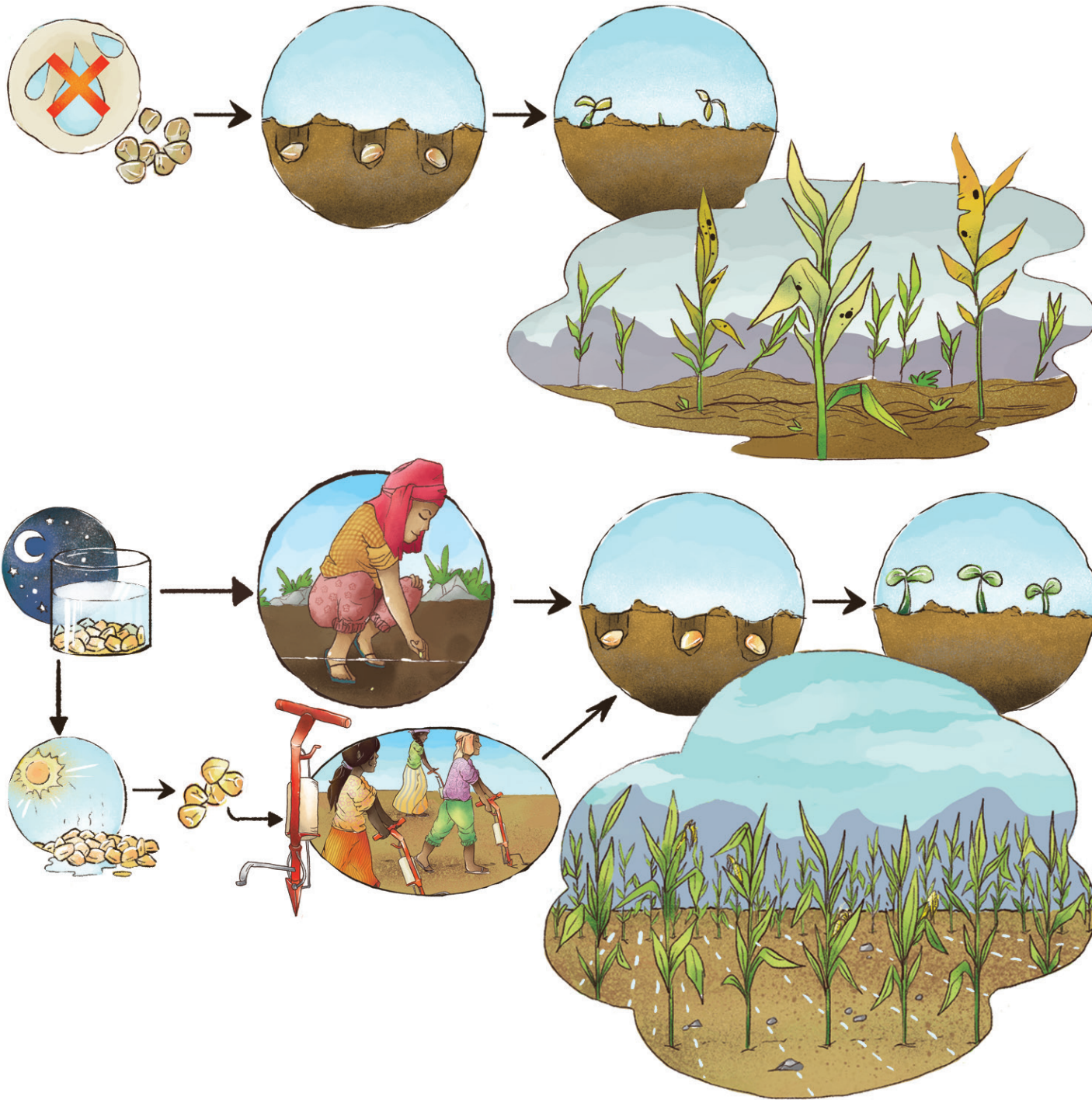


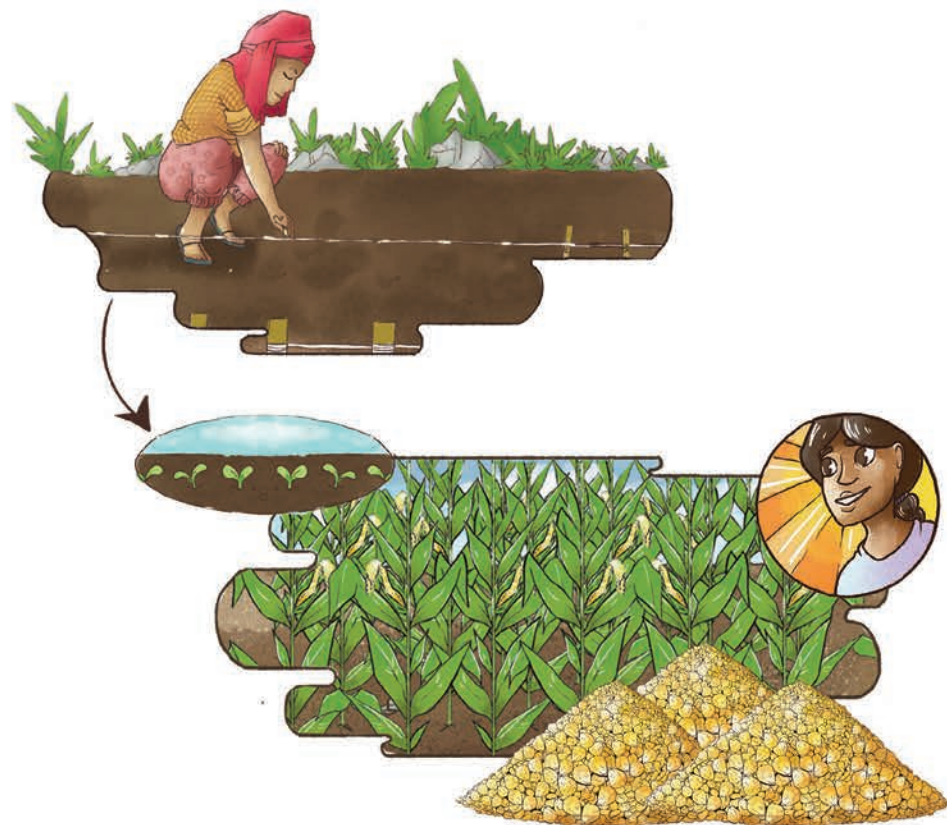


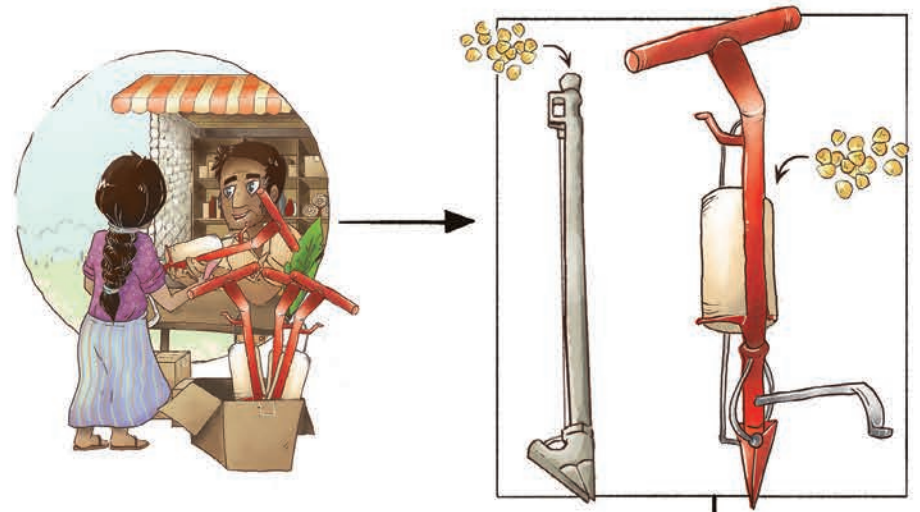


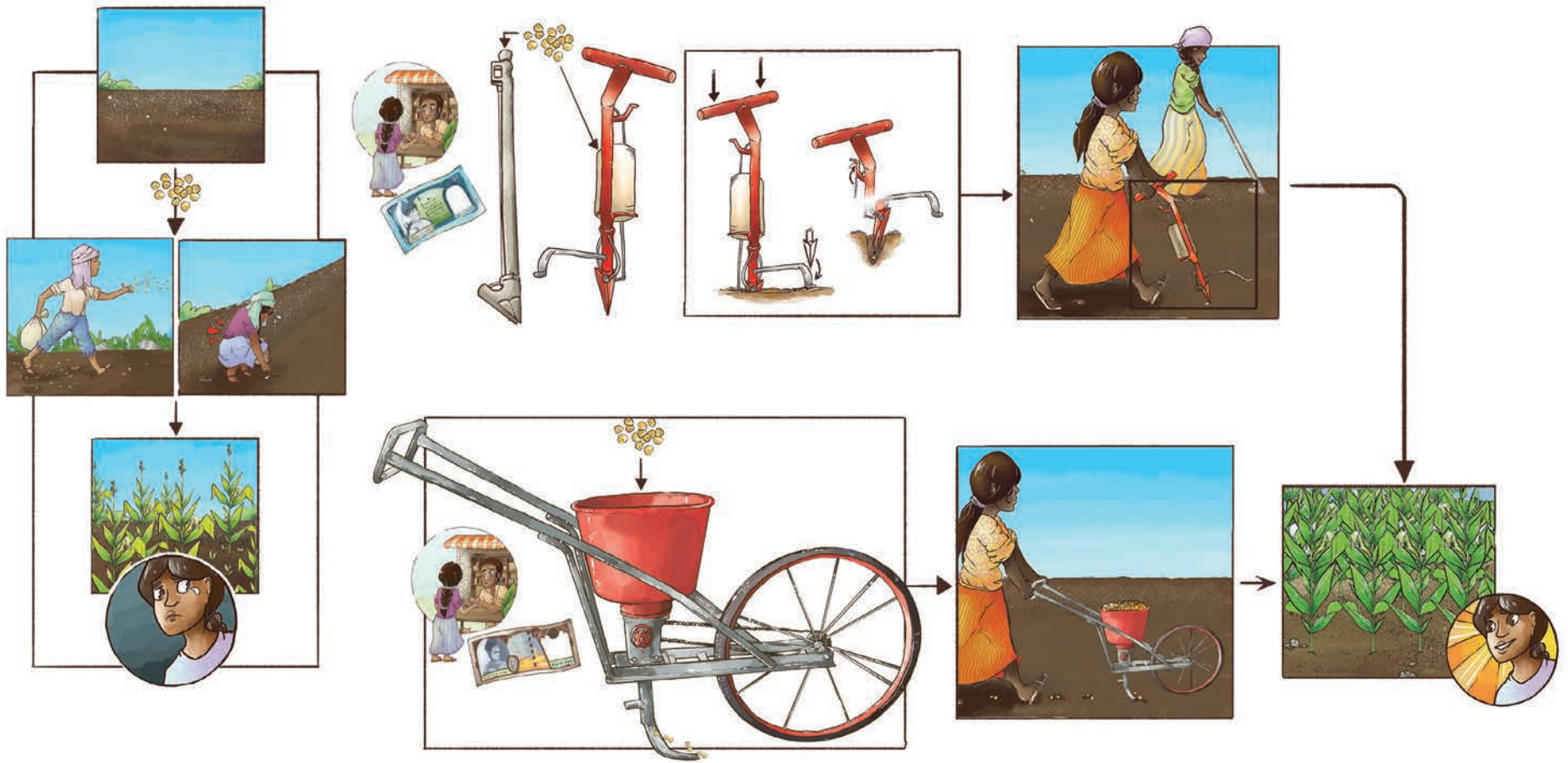


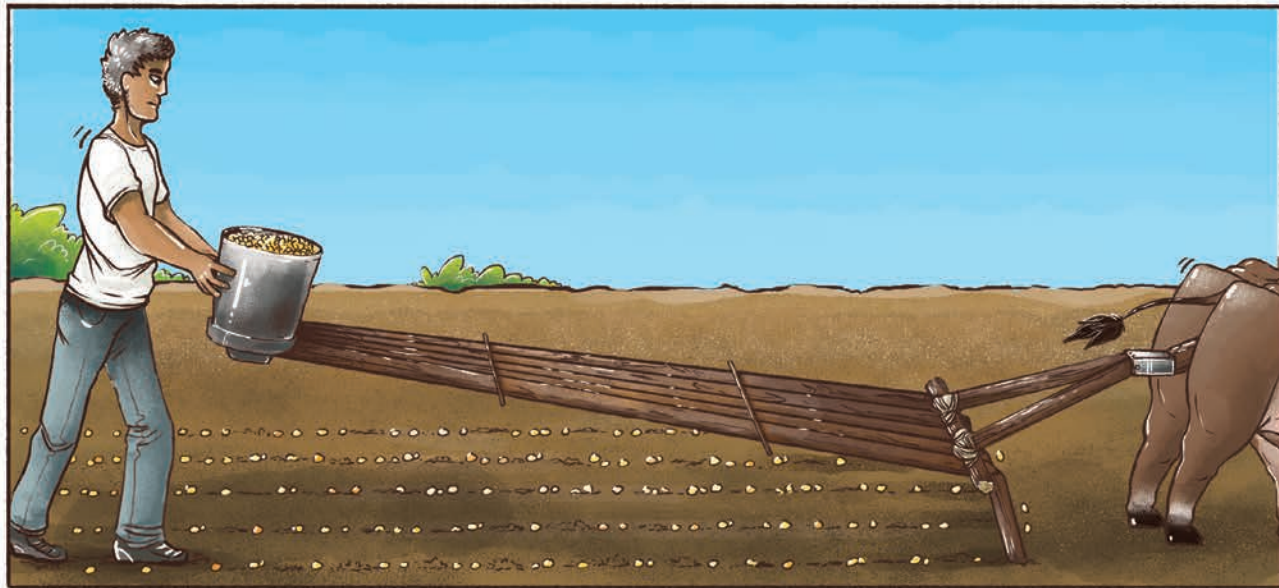
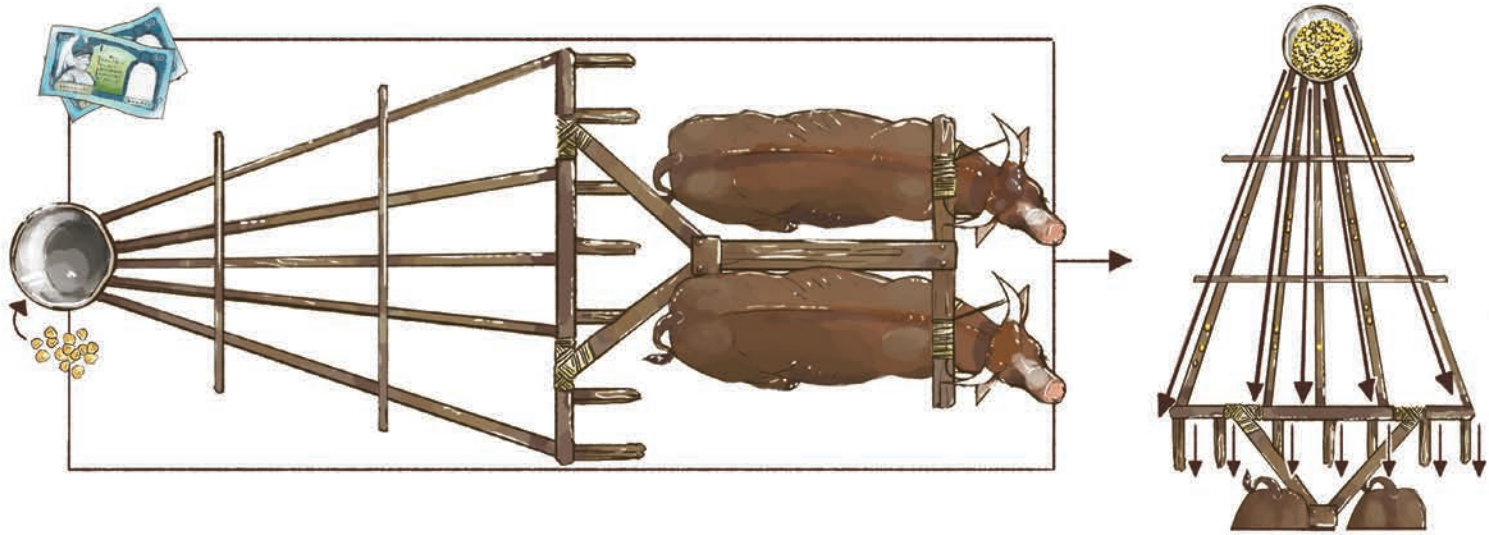


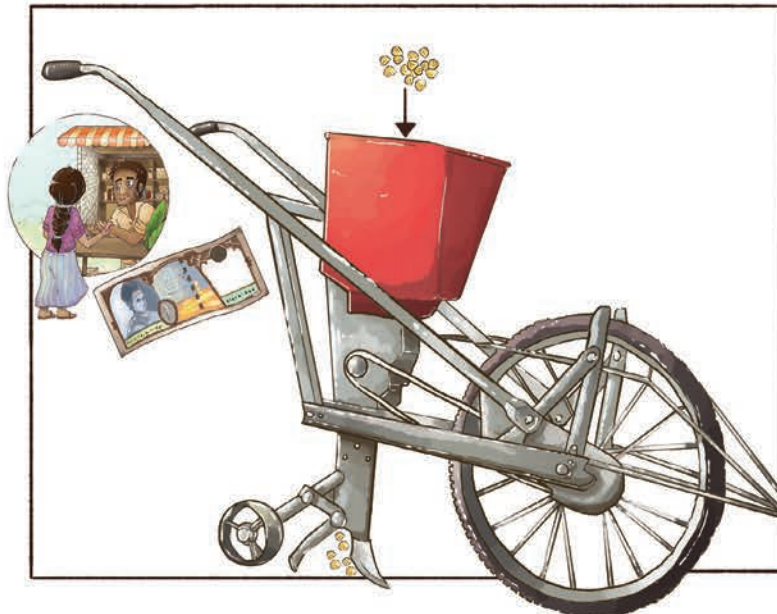
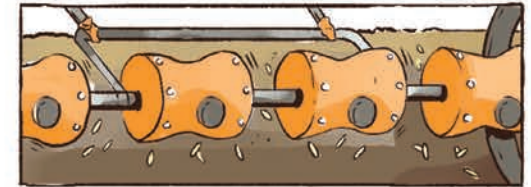
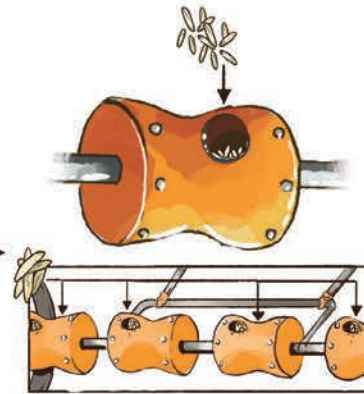
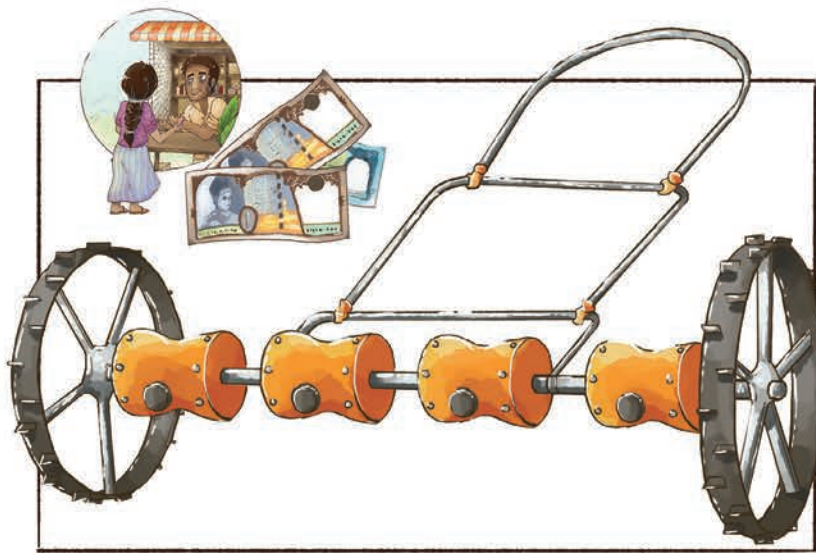


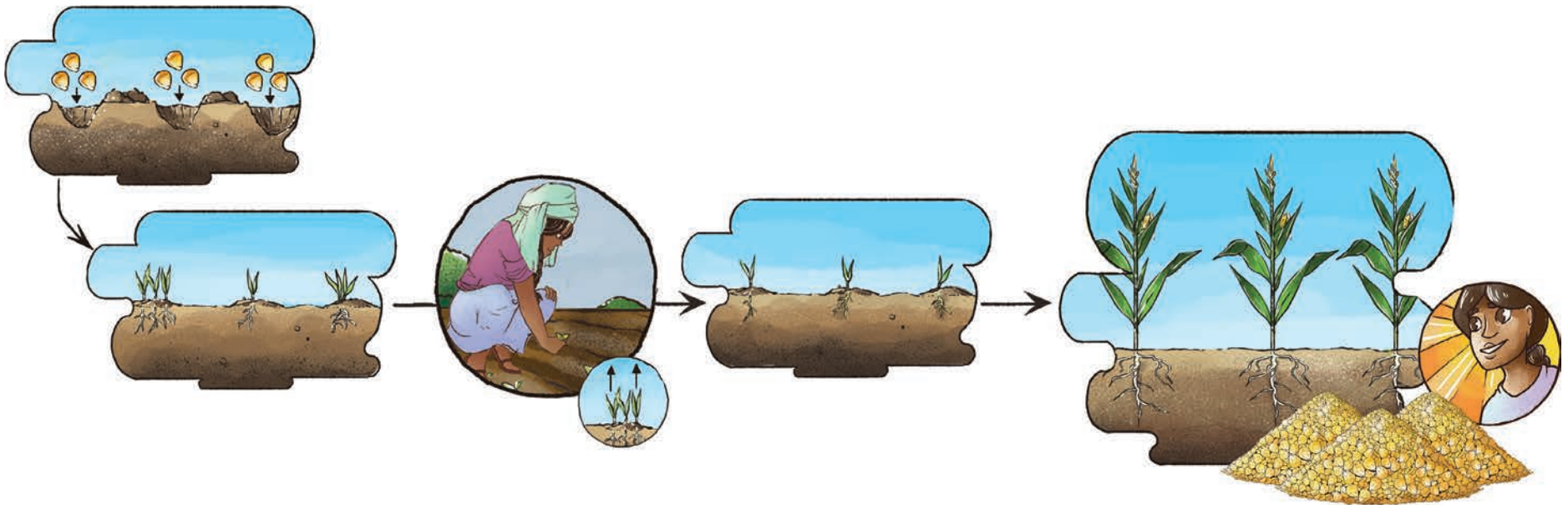
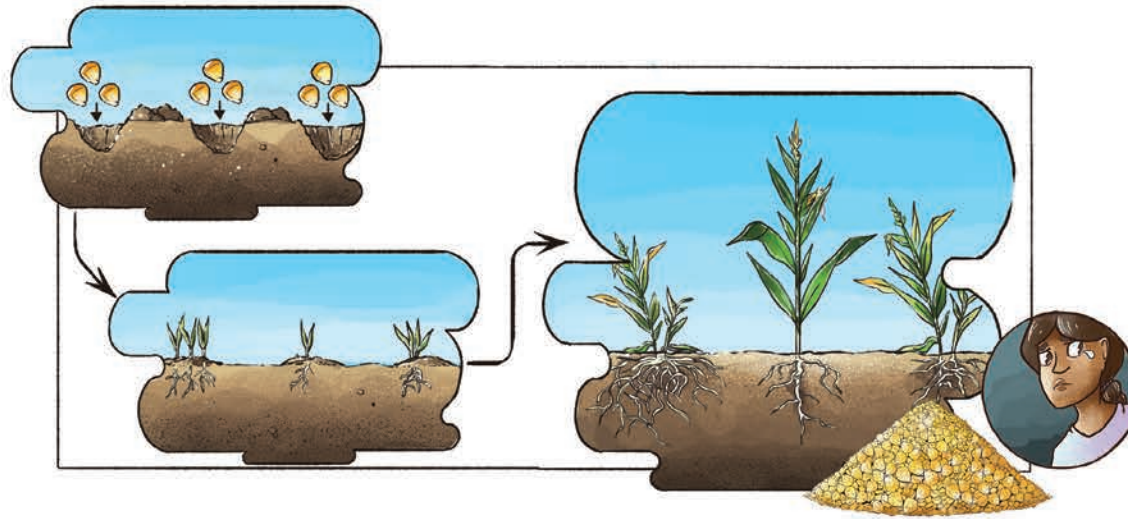


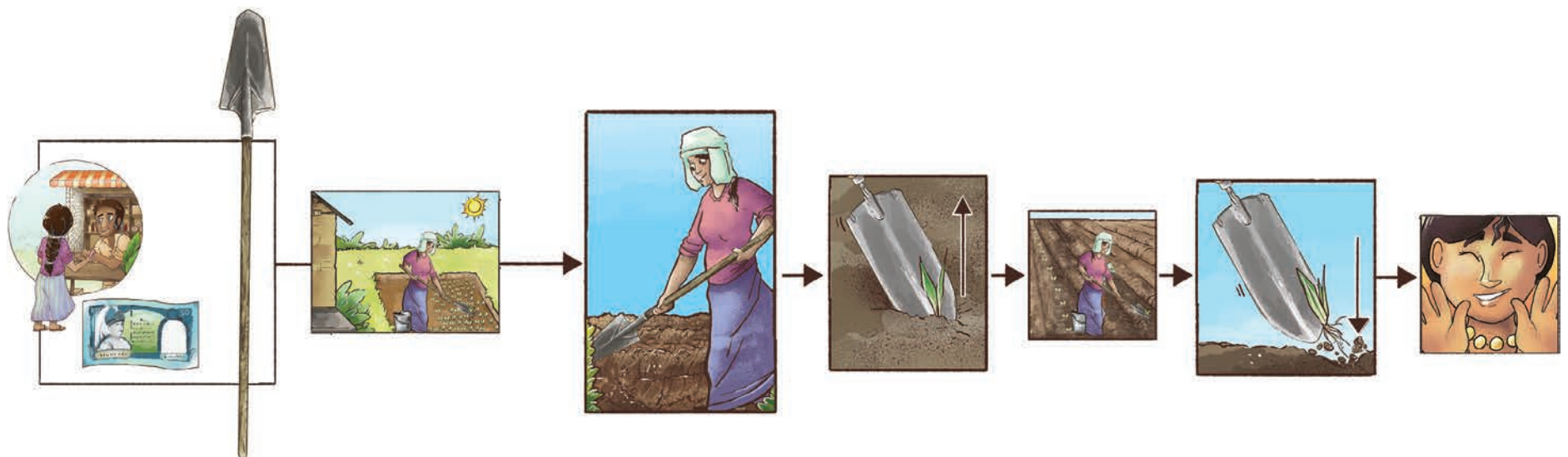
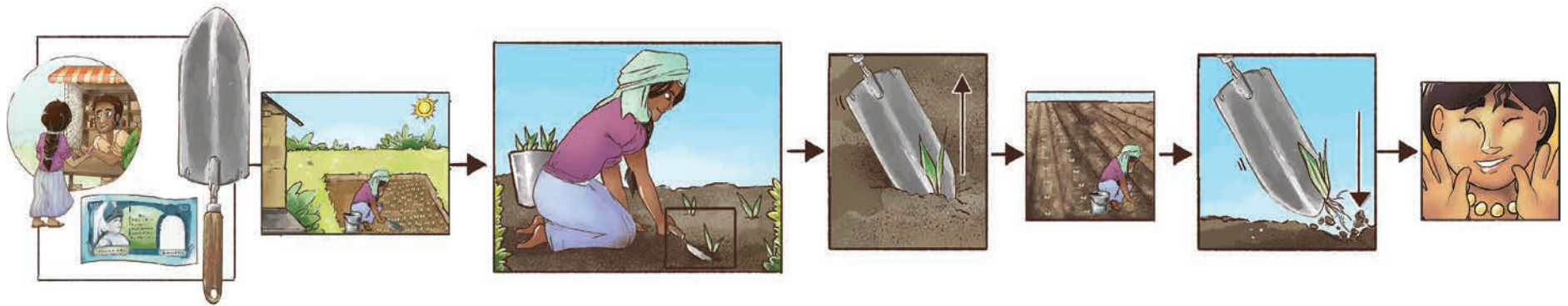


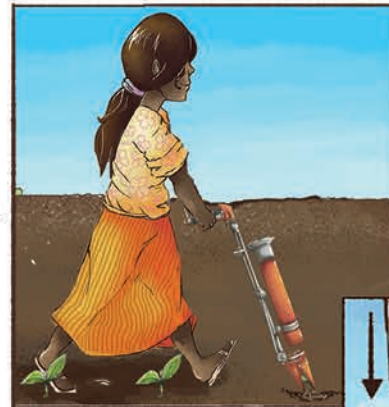
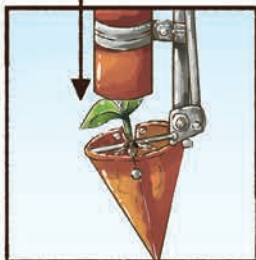
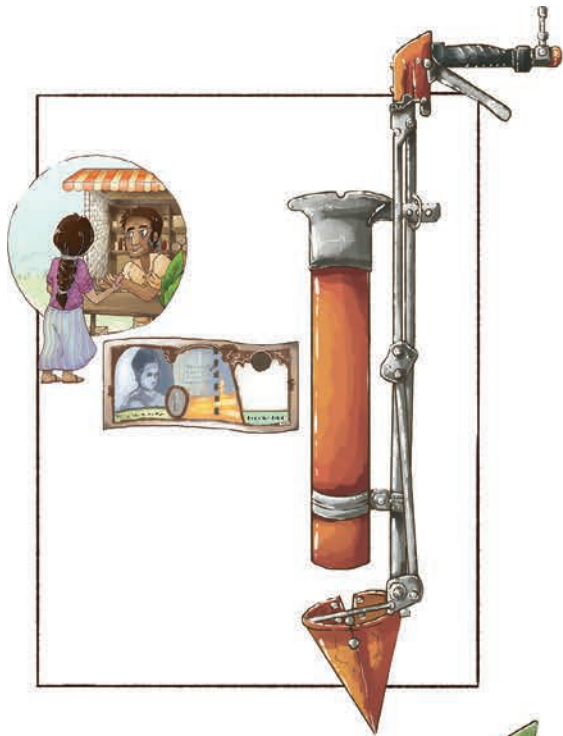


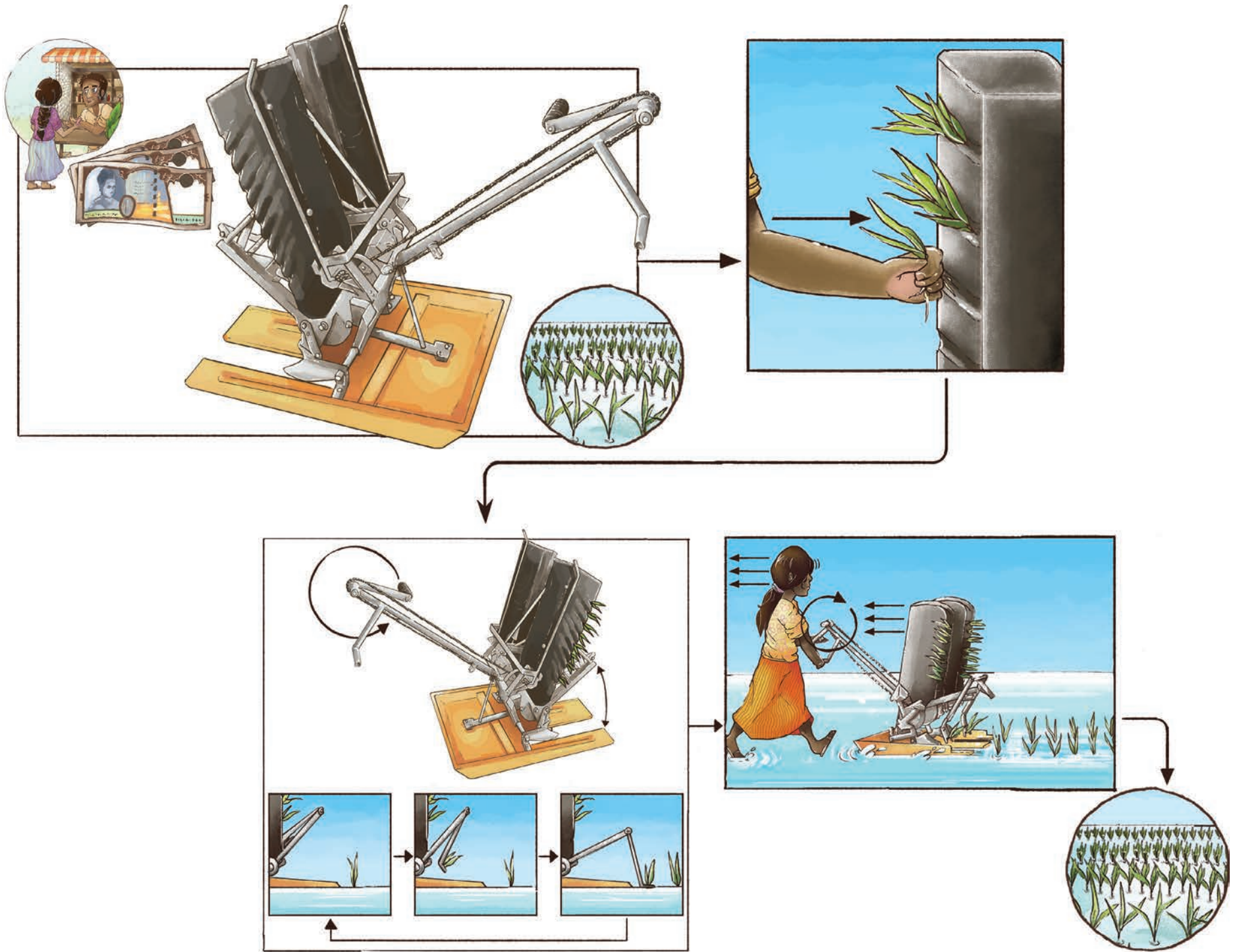


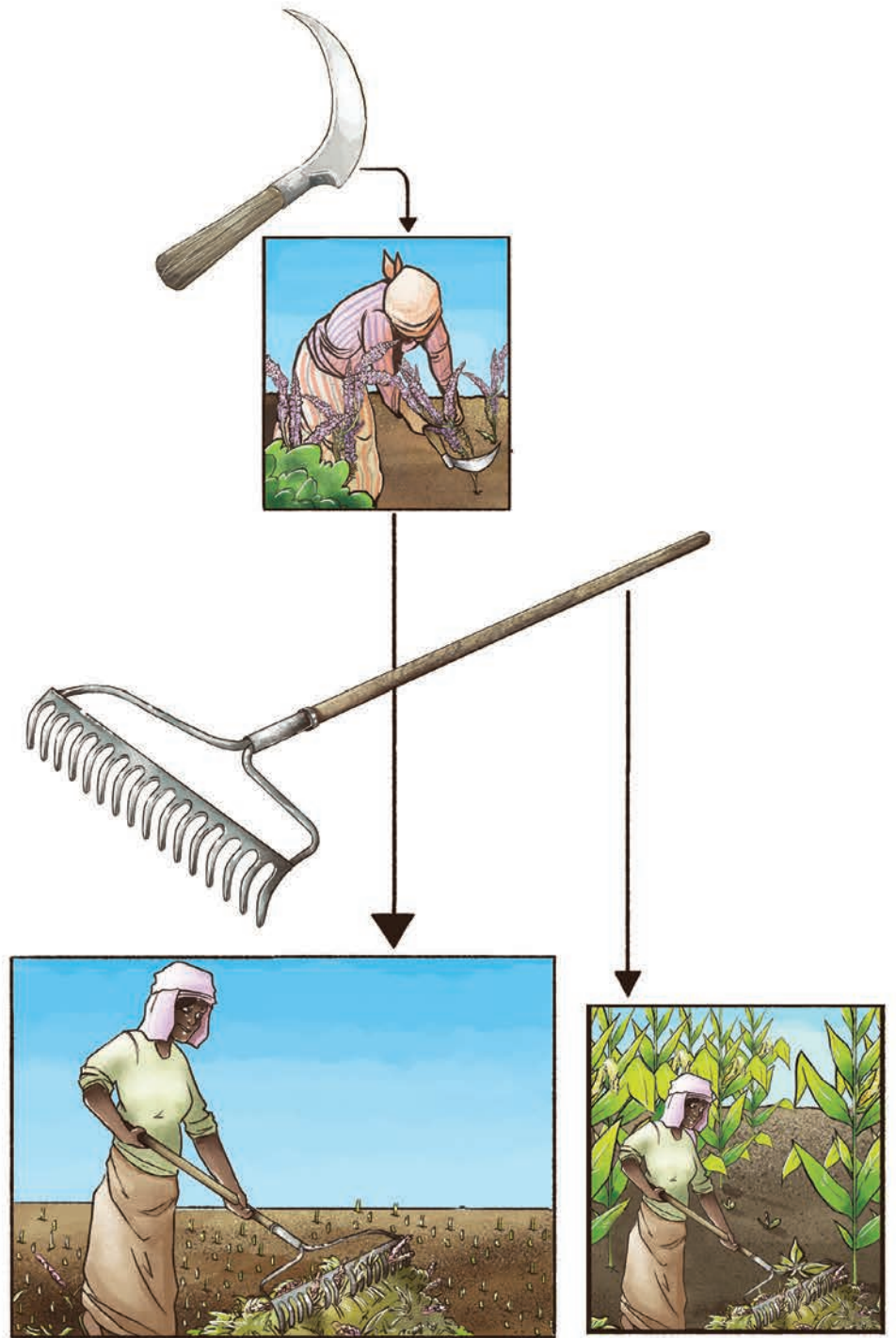
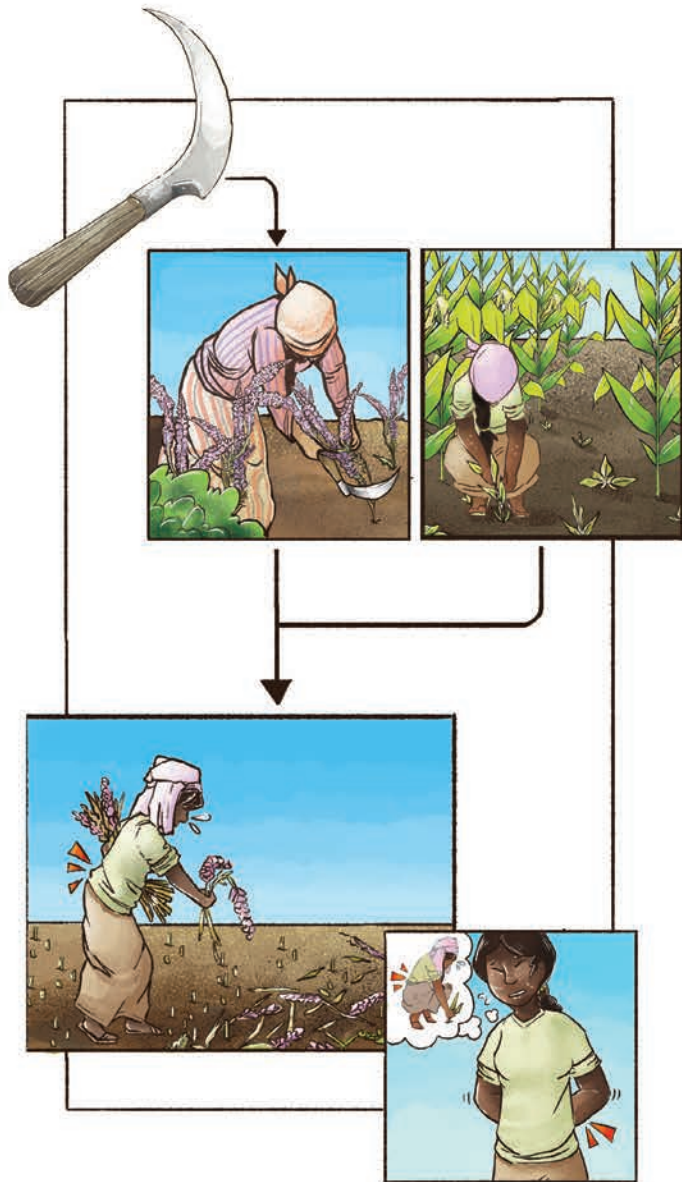


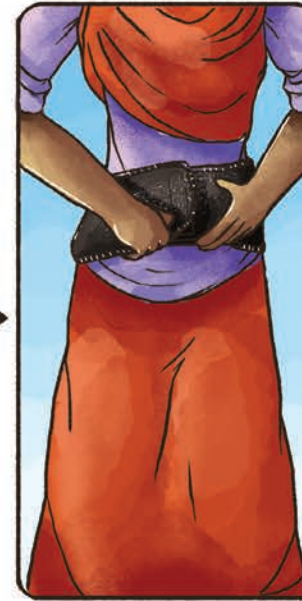




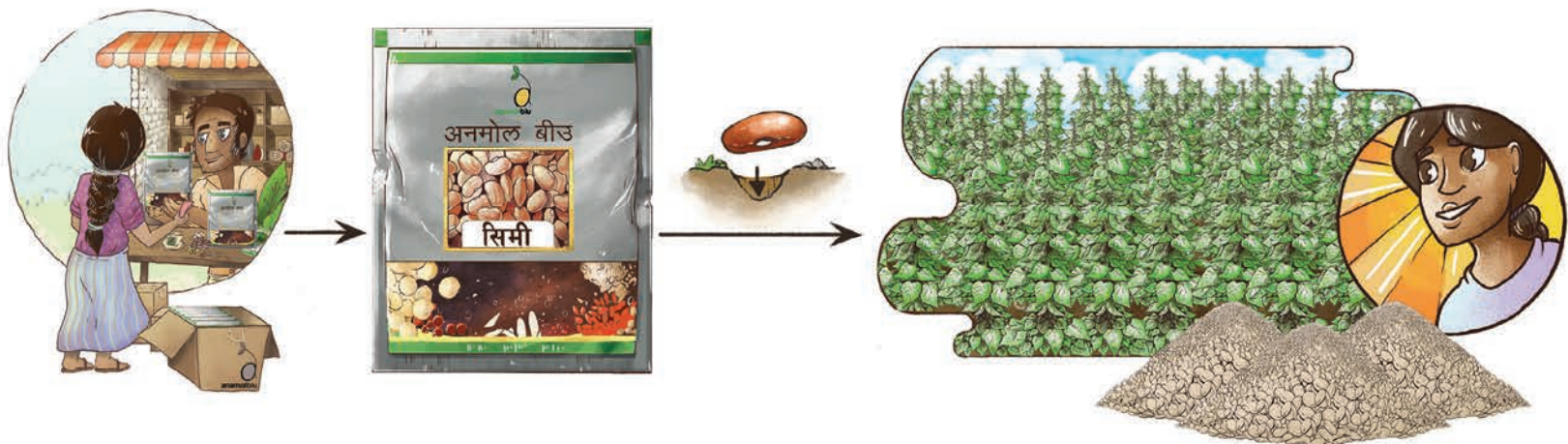
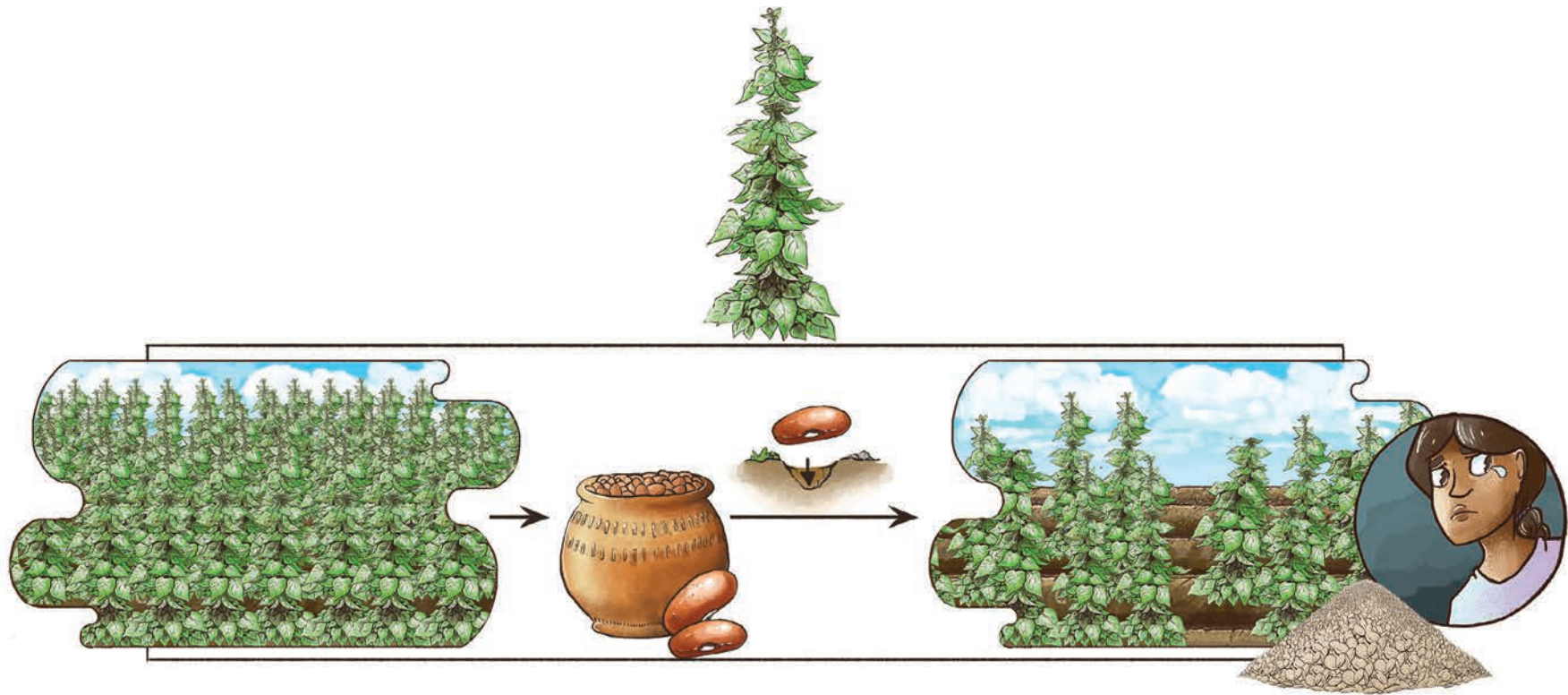


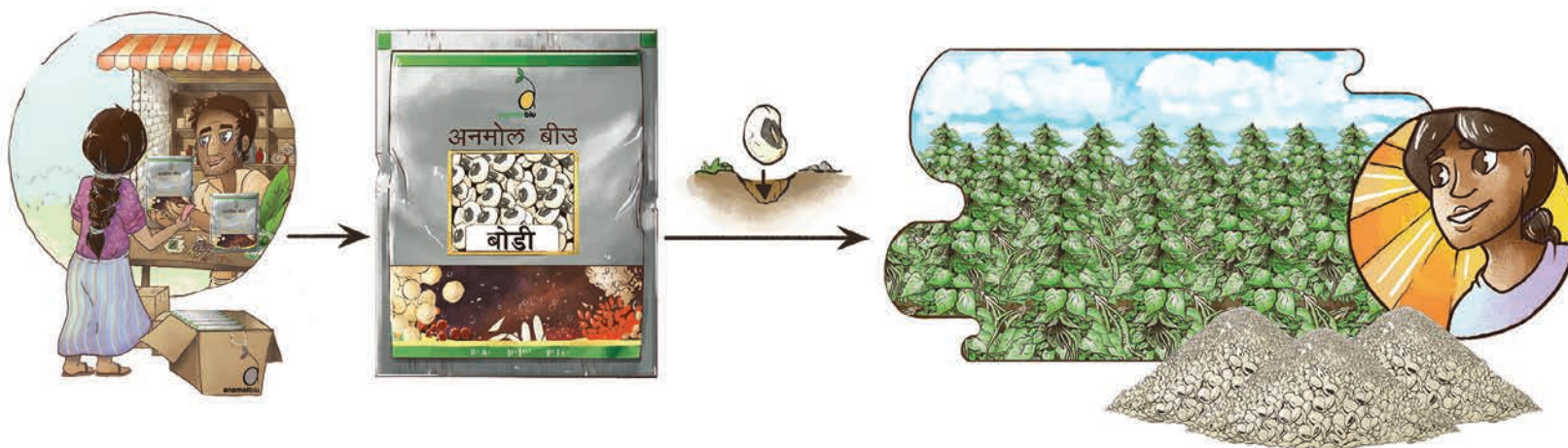
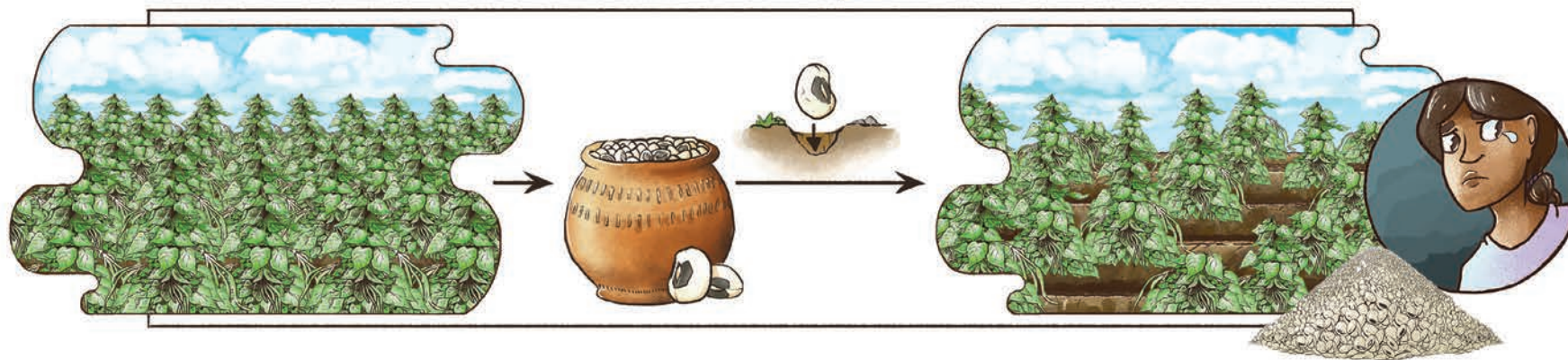


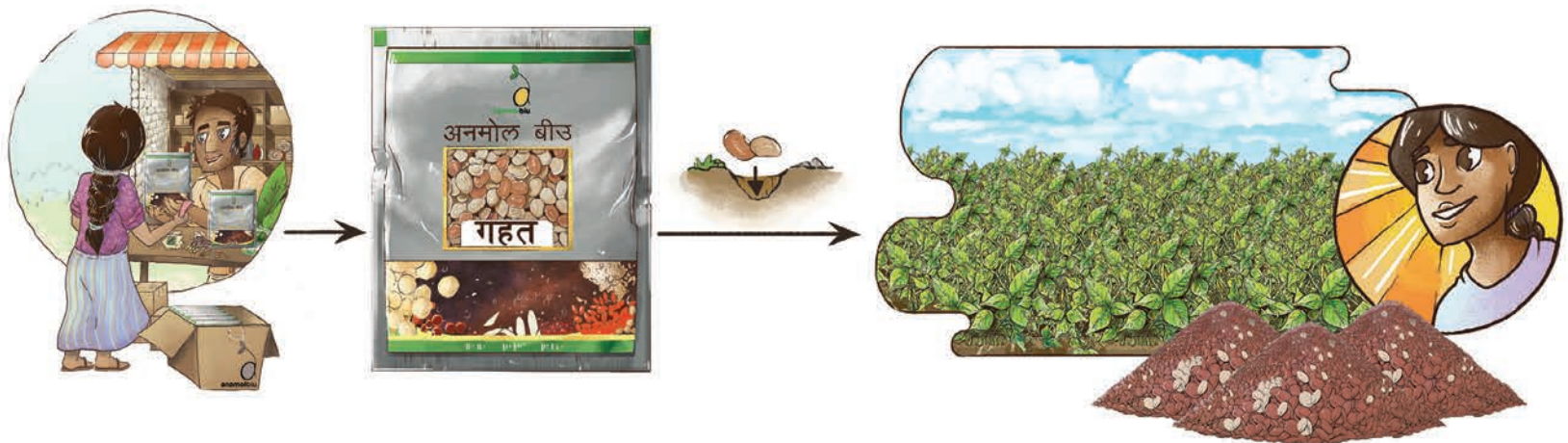
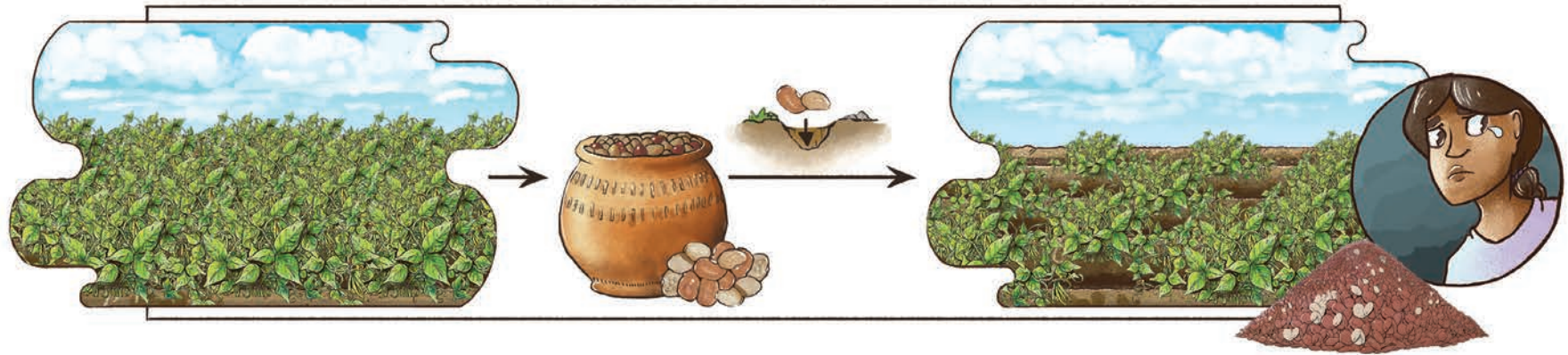


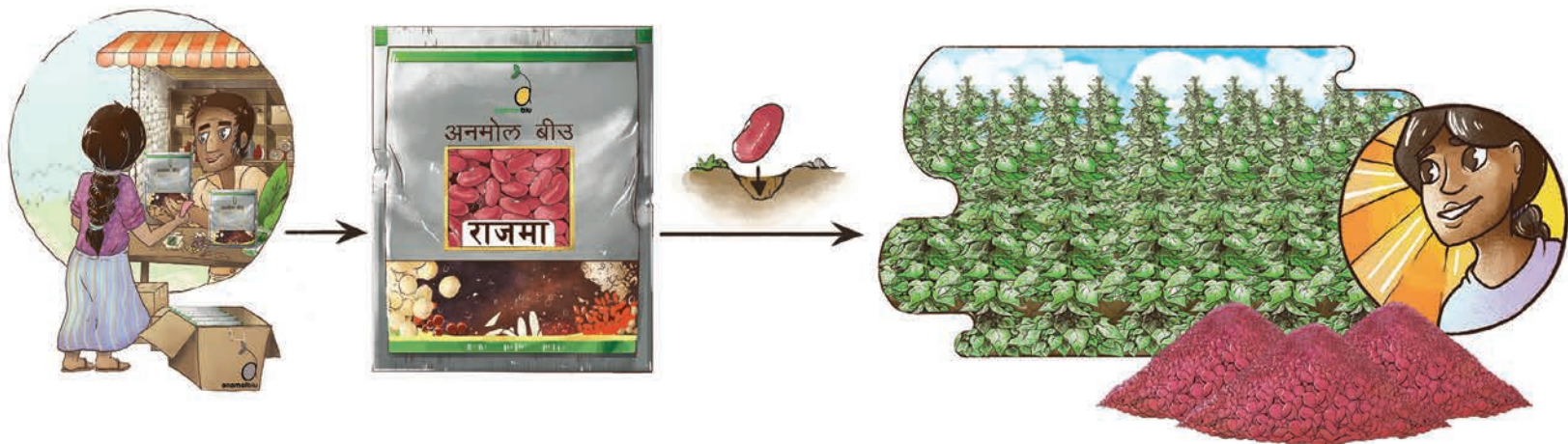
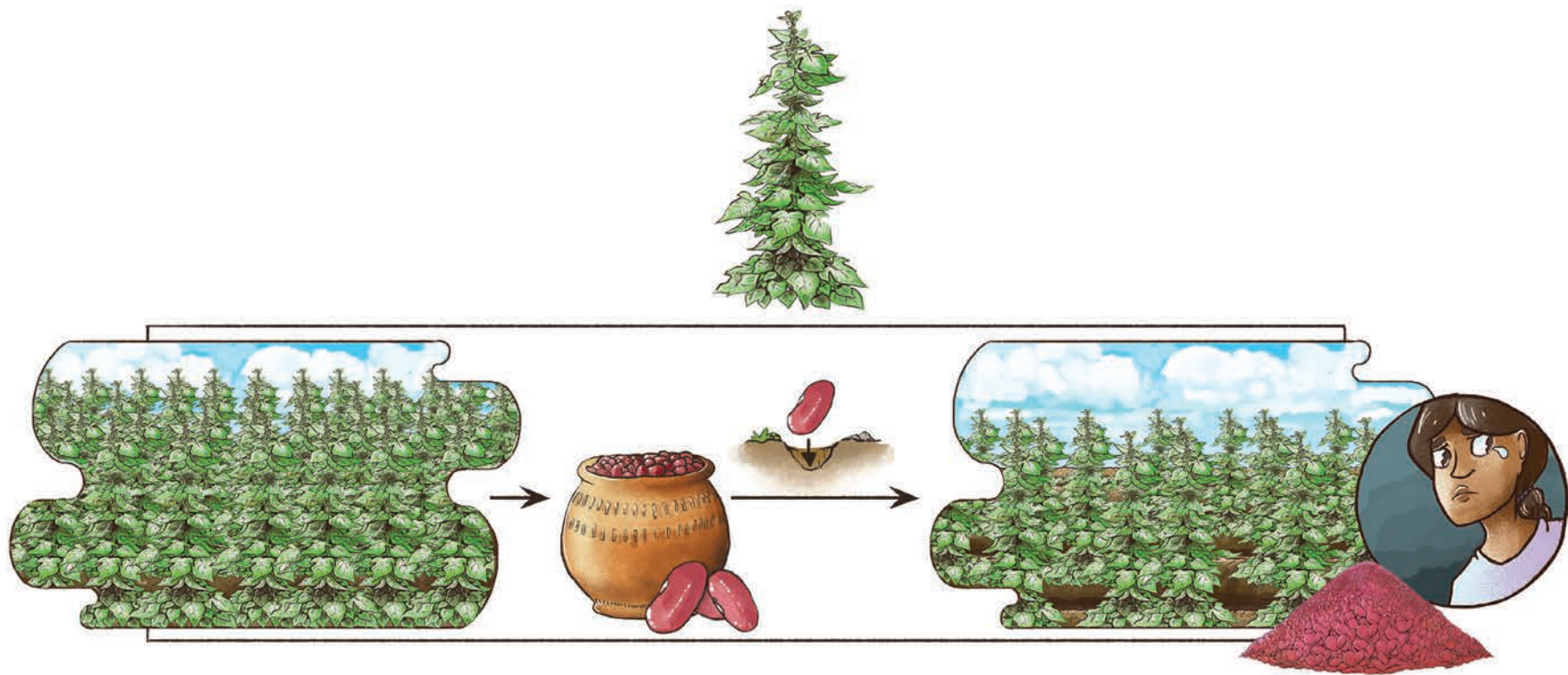


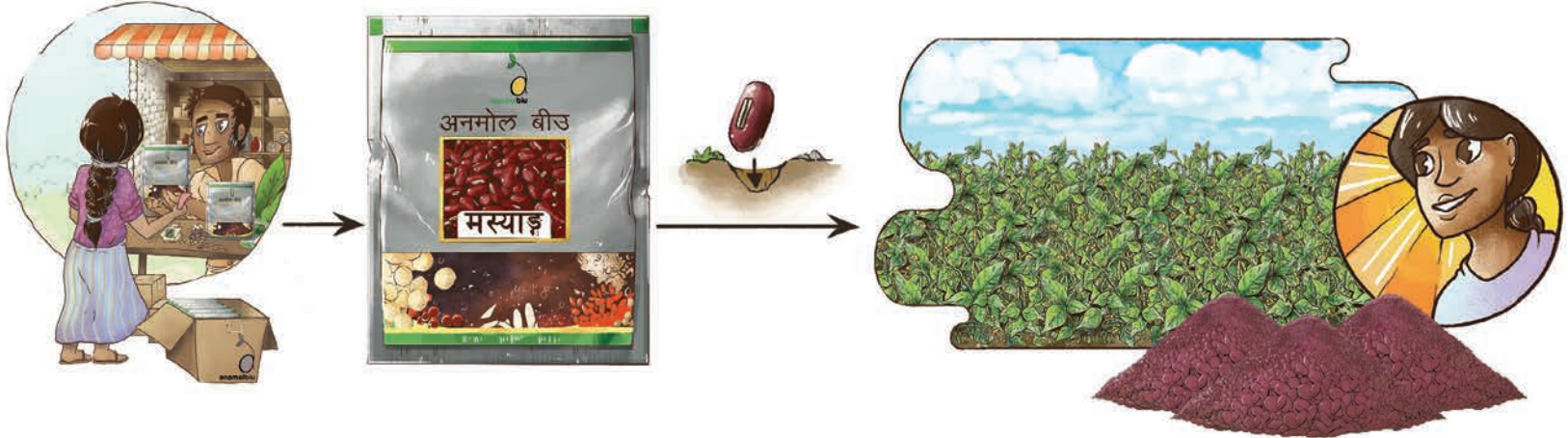
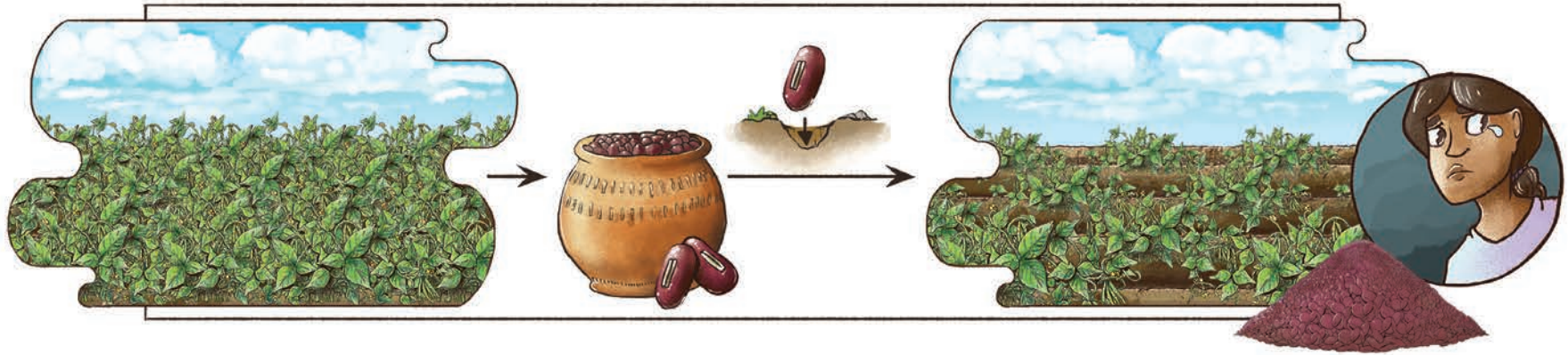
Chapter 3: Crop & Tree Intensification

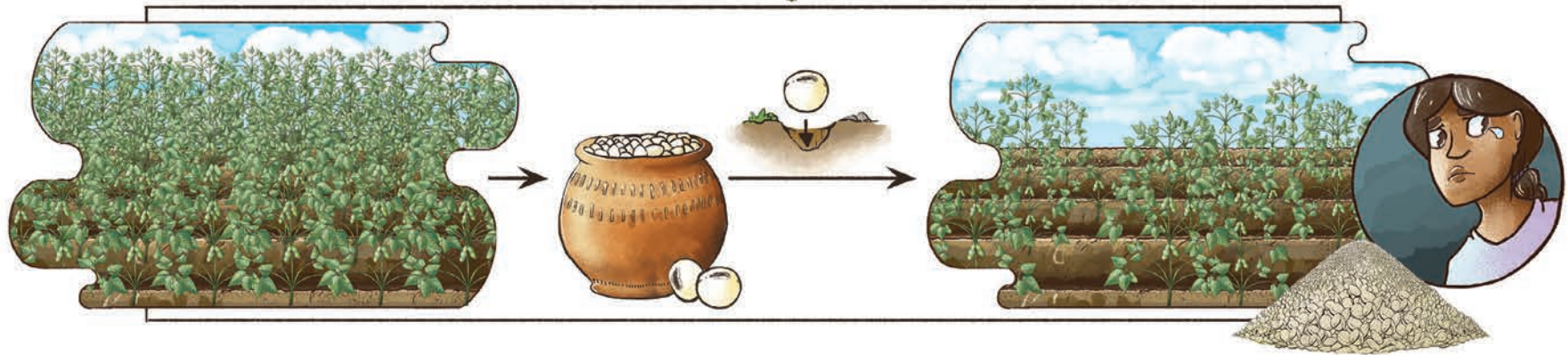


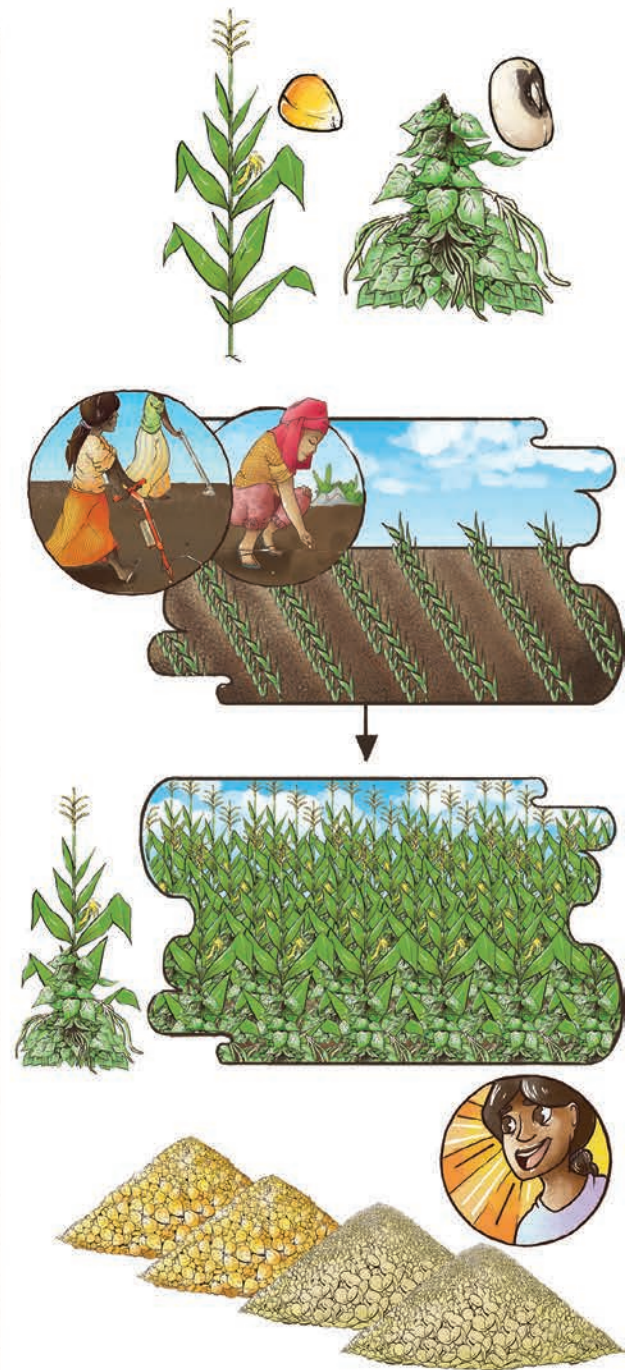
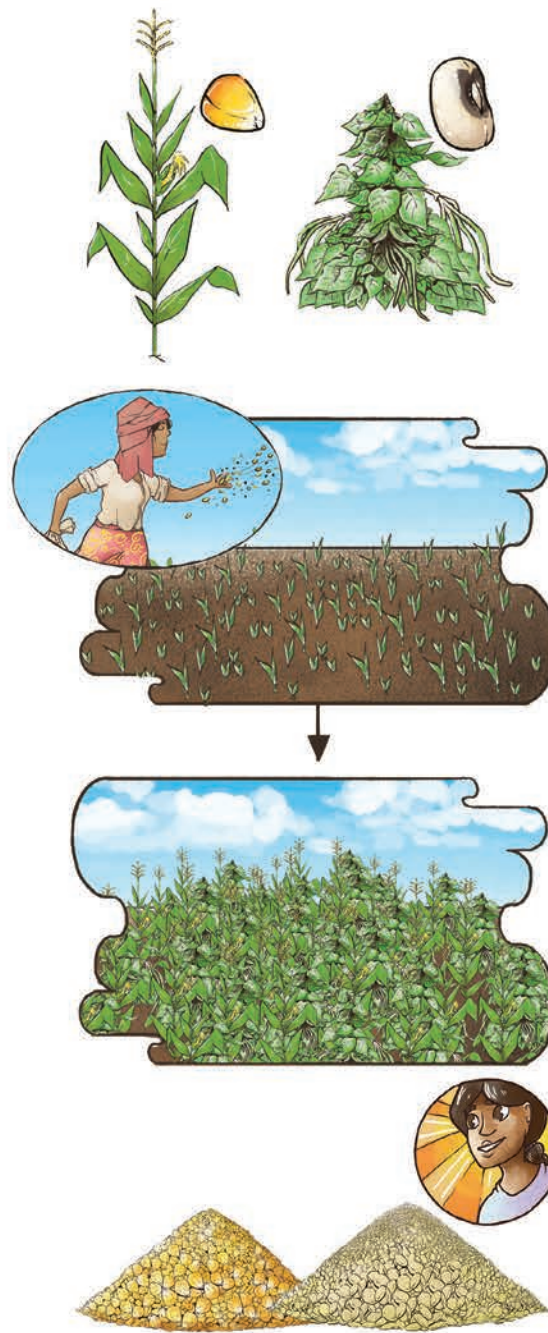
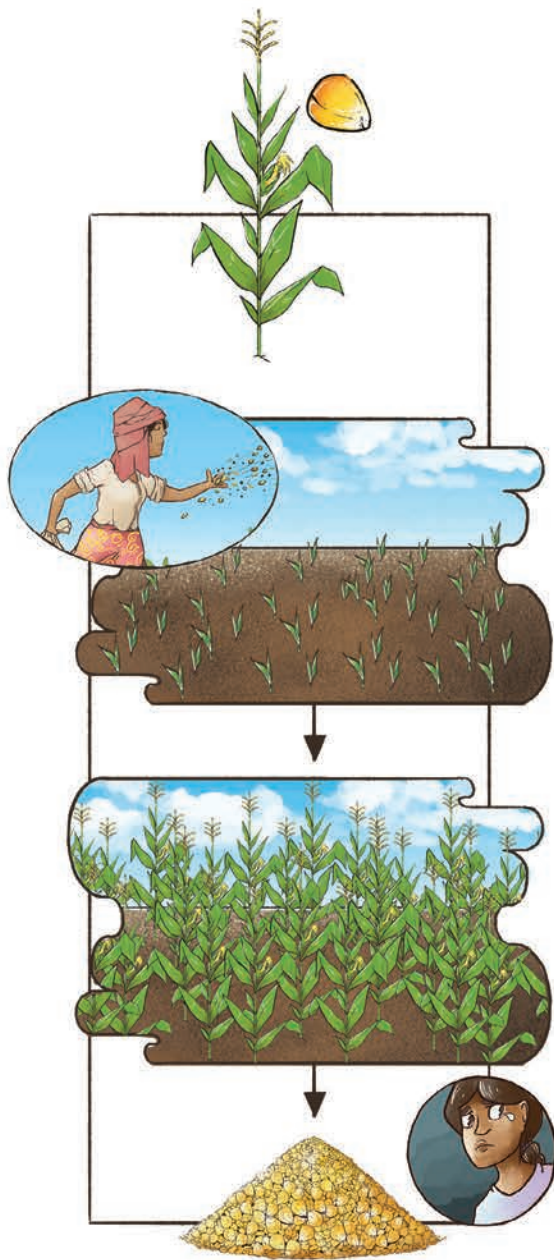


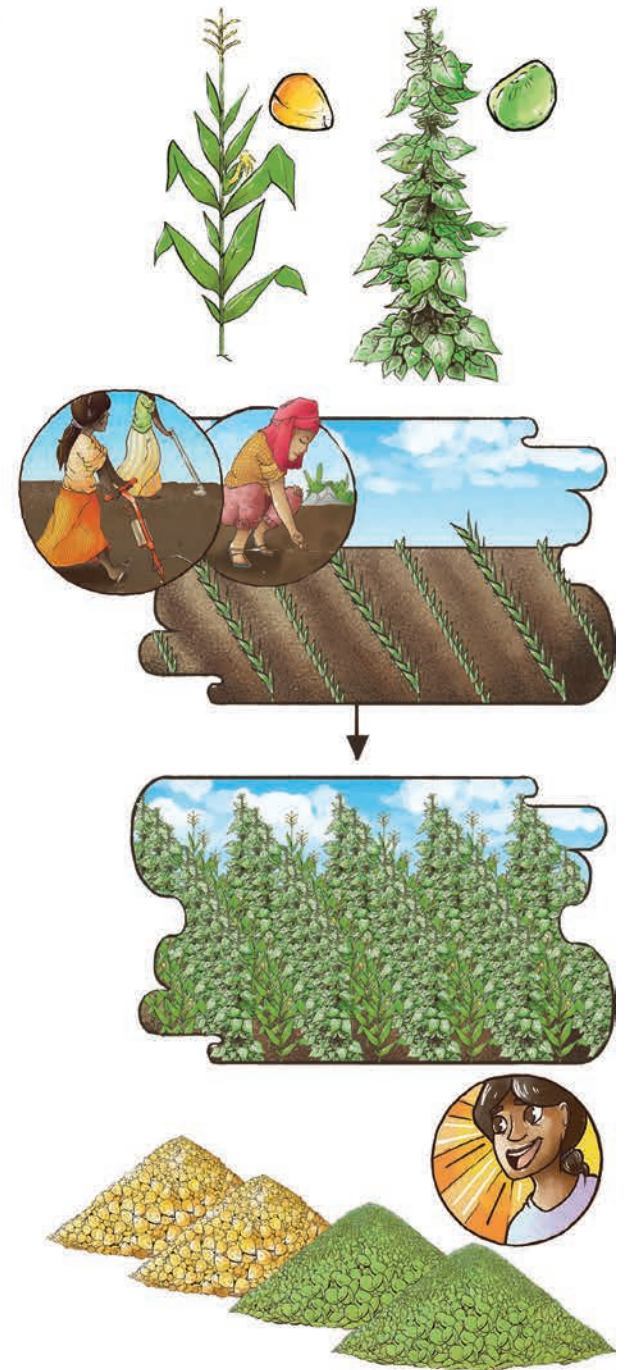
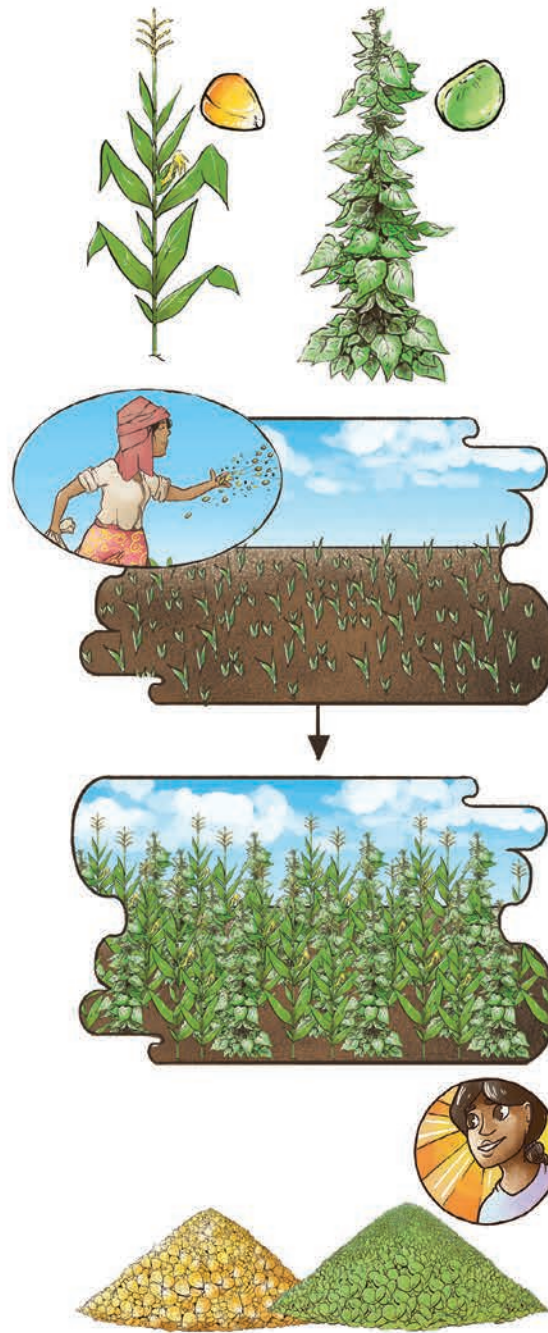
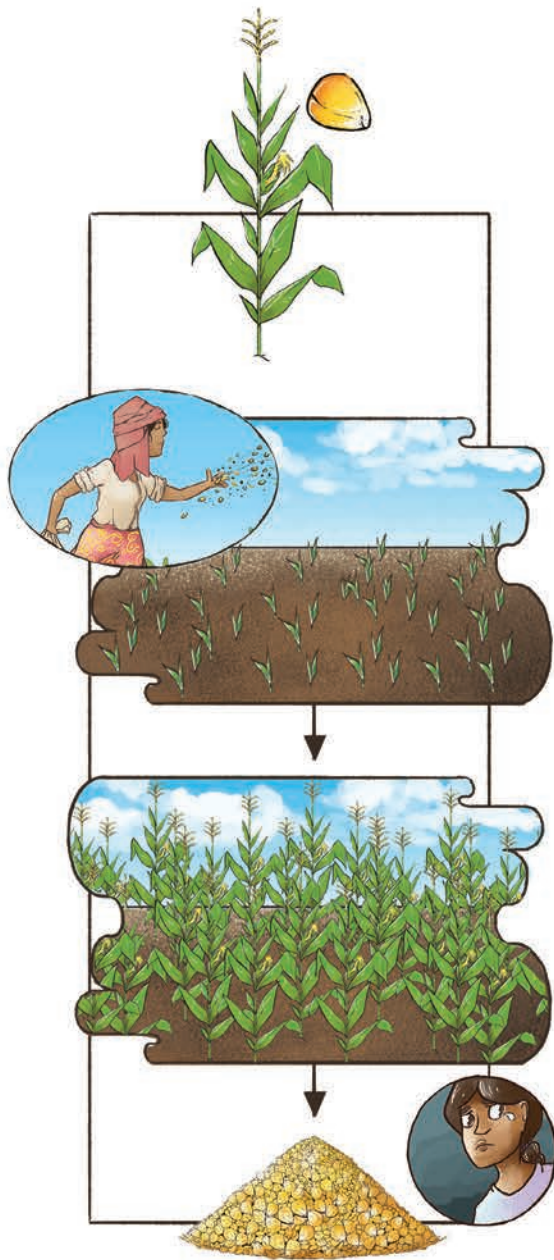


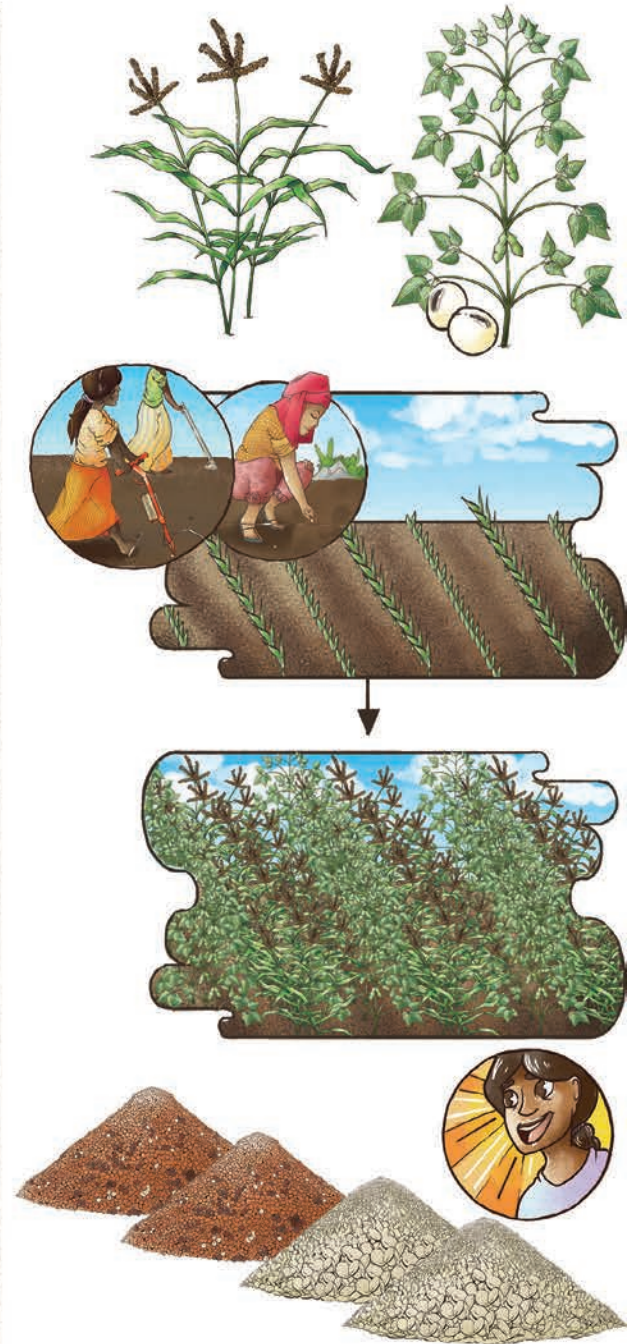
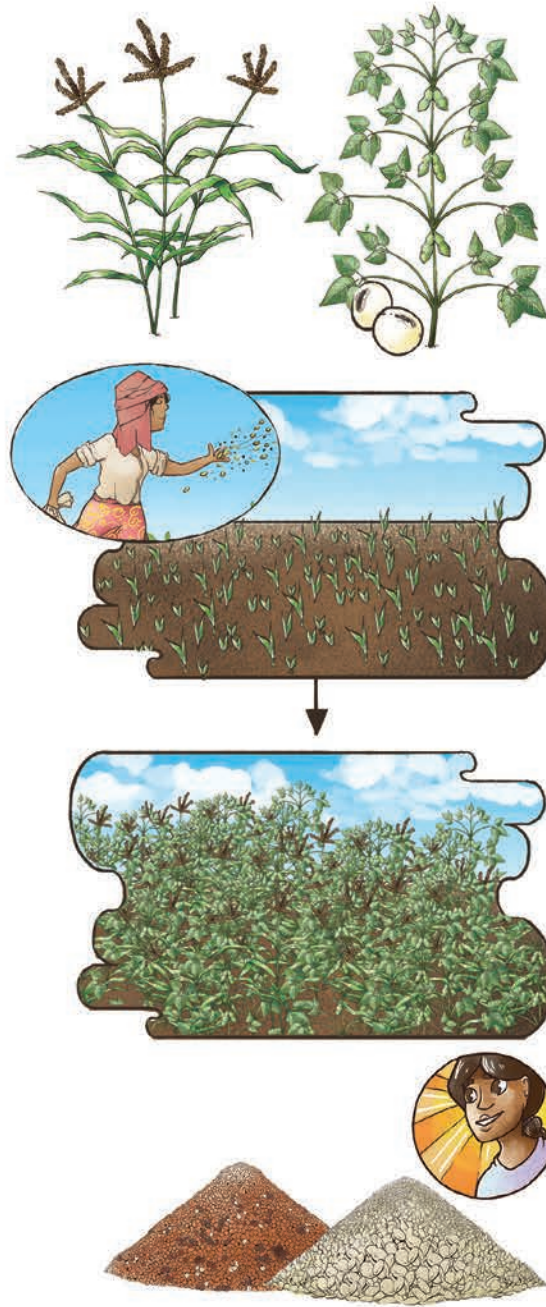
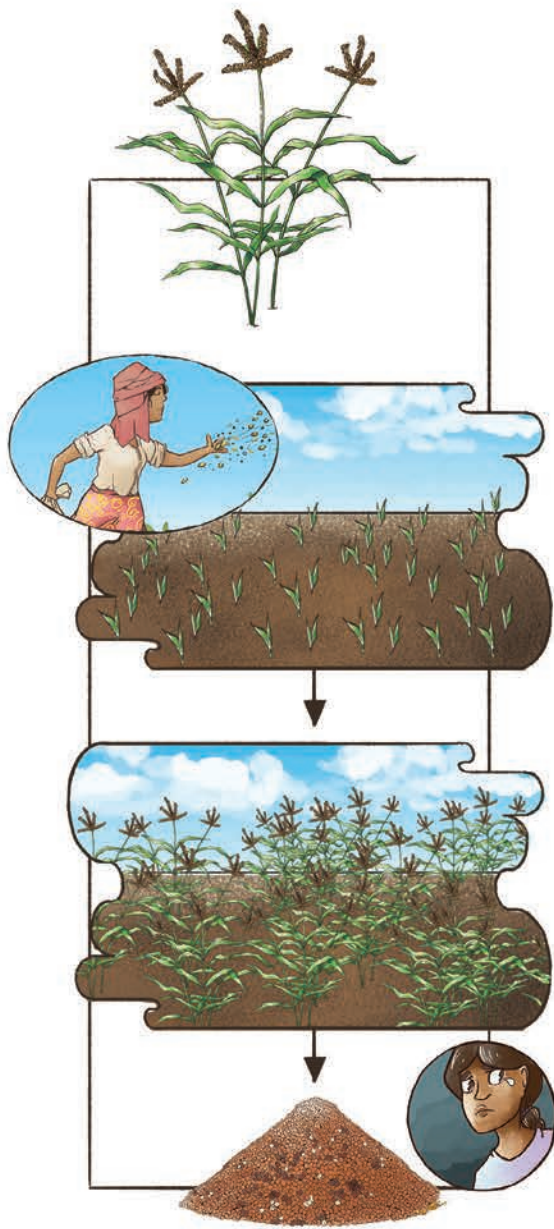


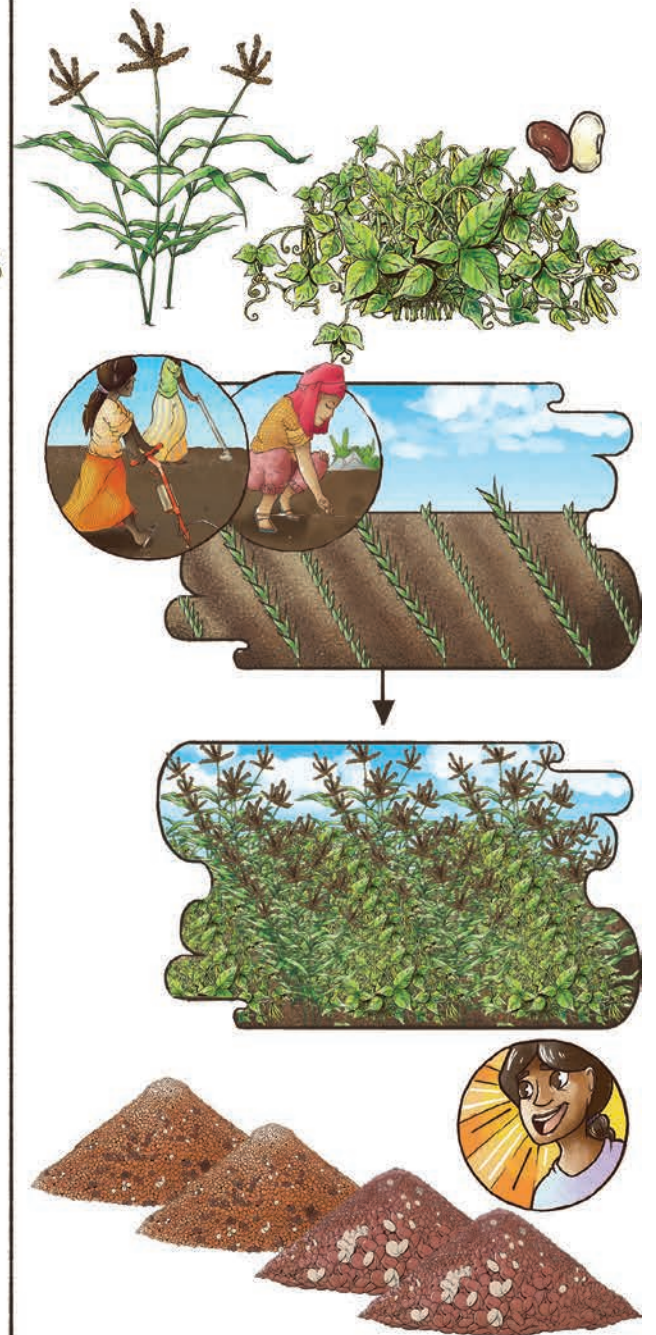
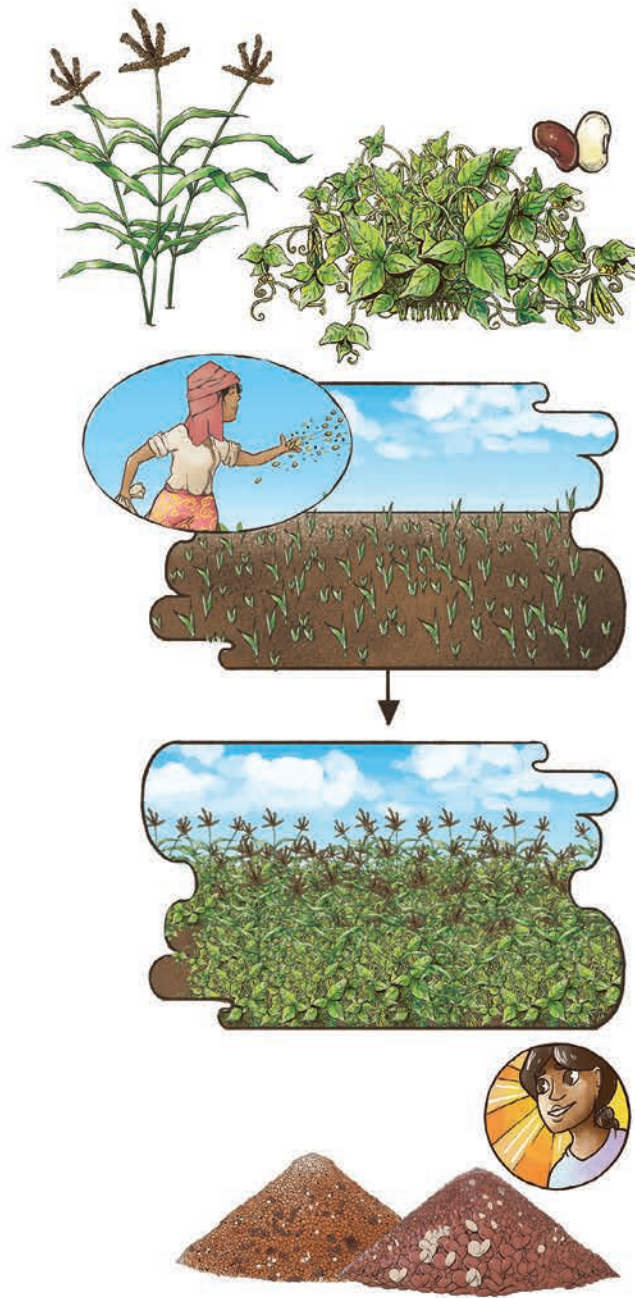
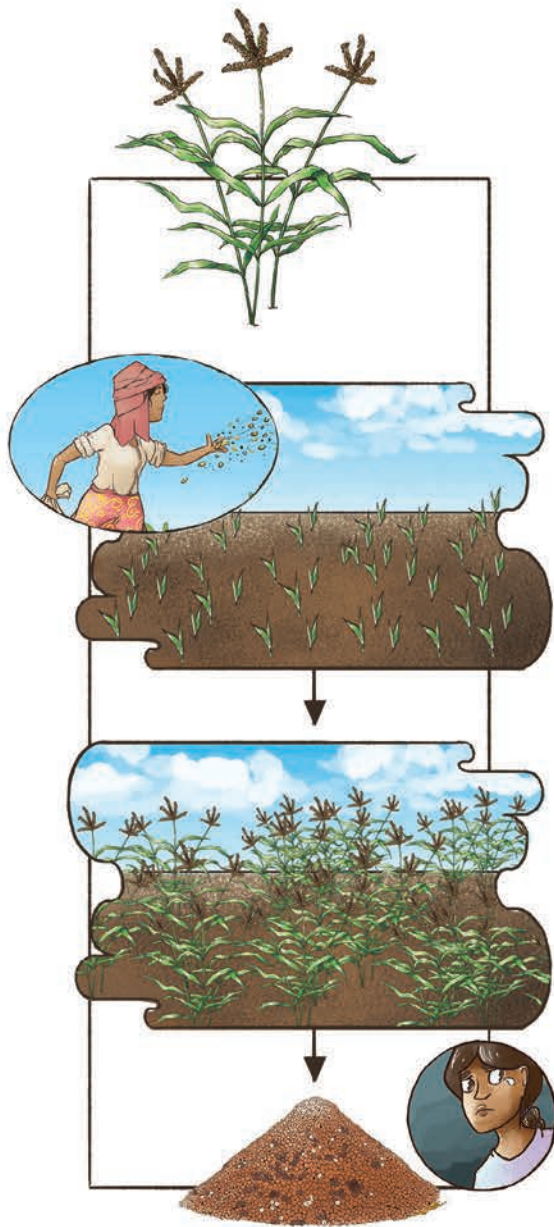


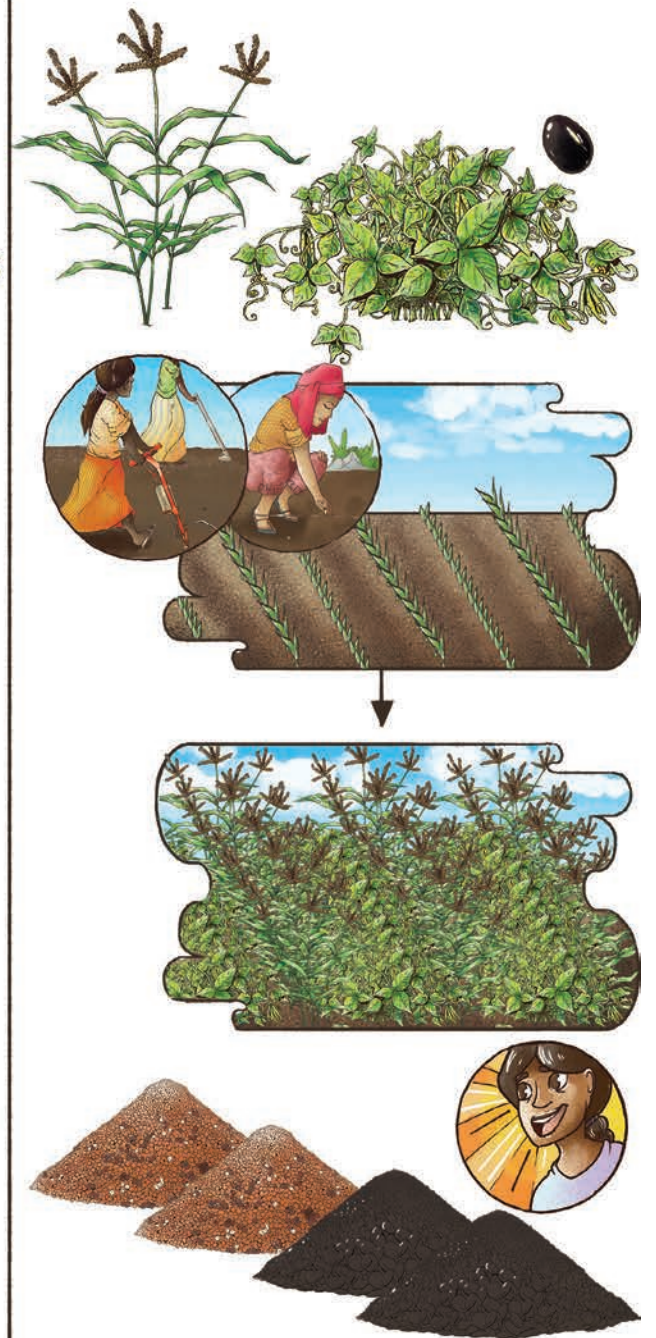
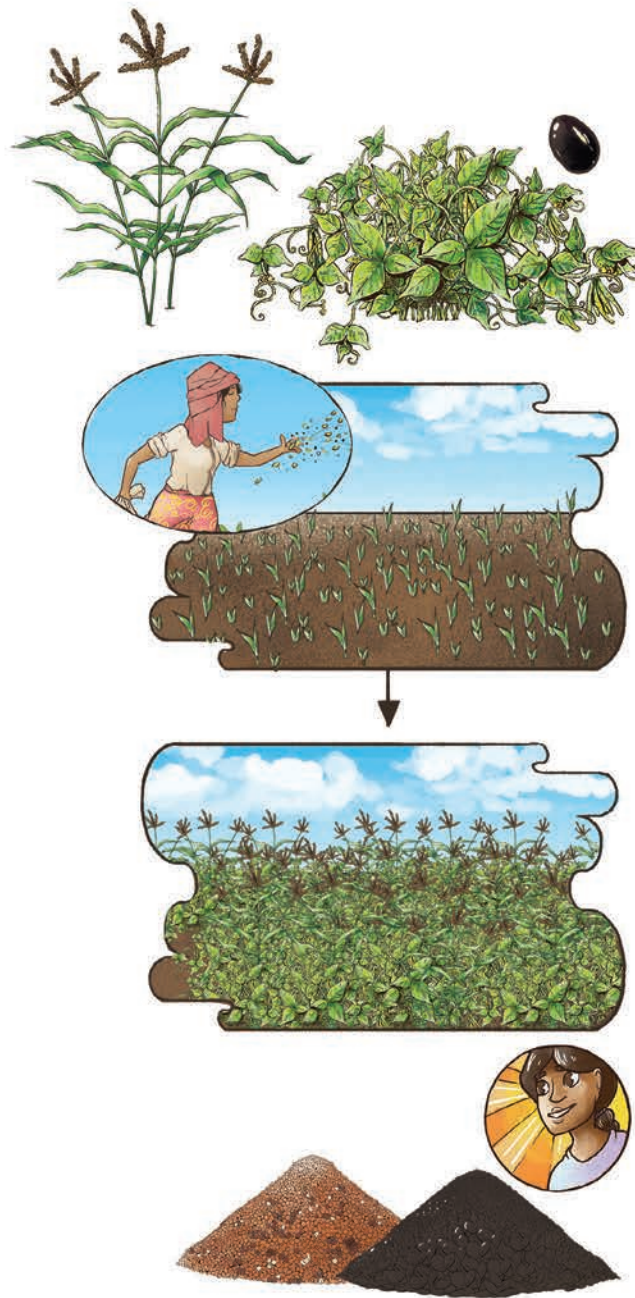
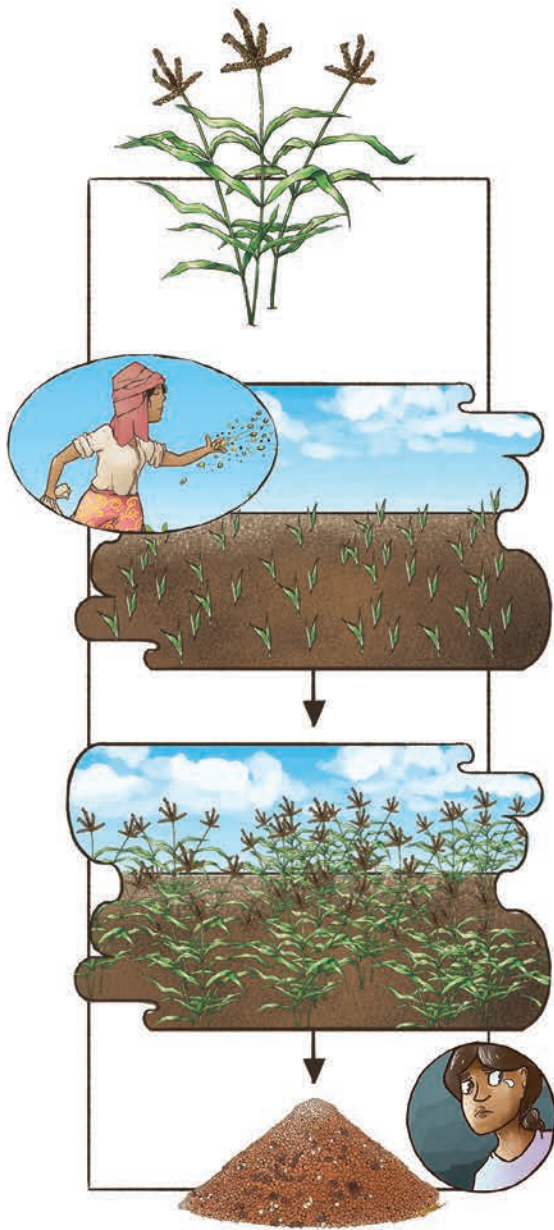


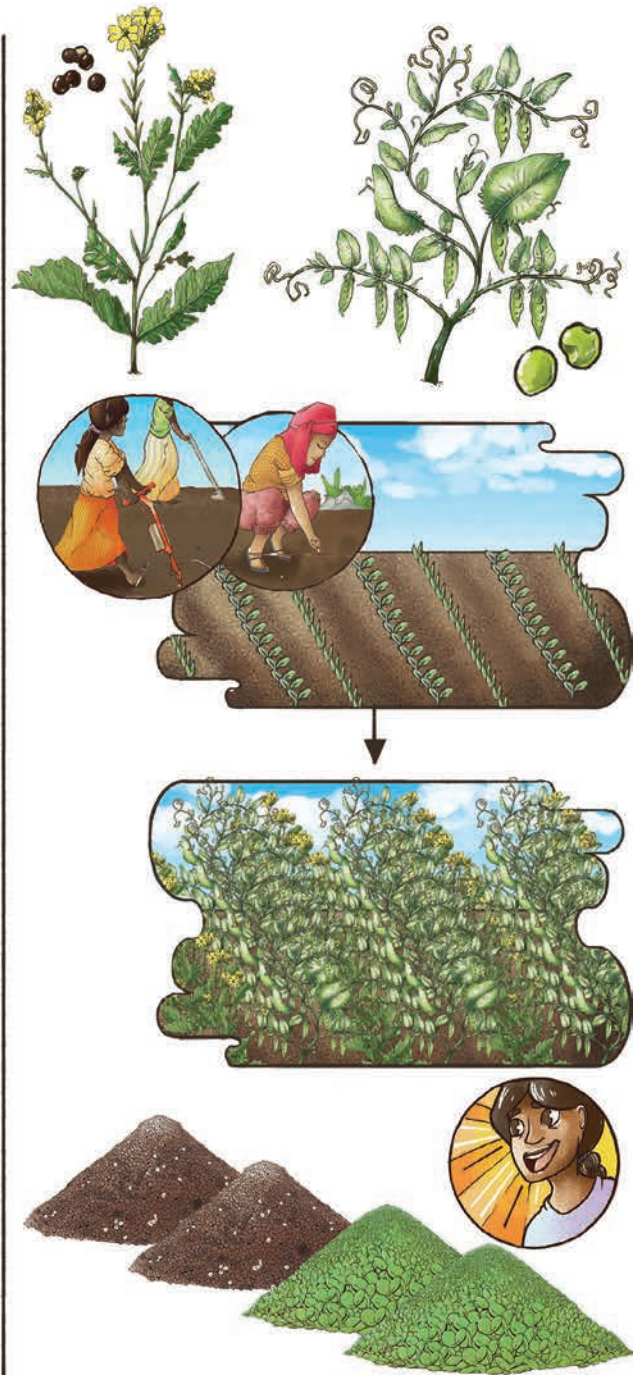
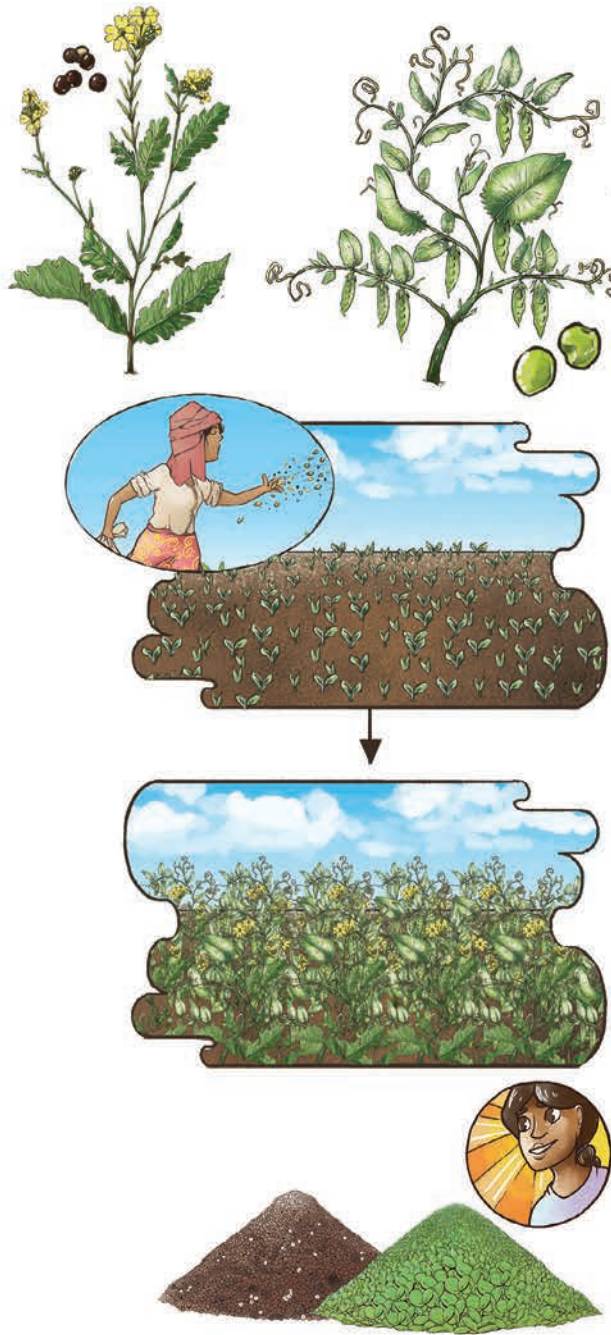
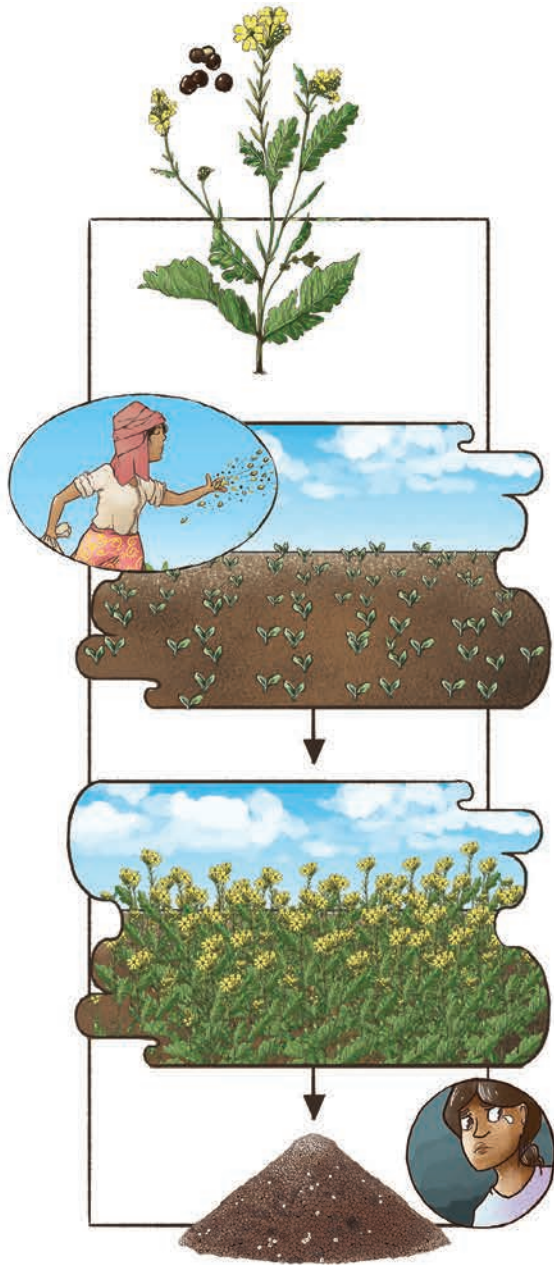


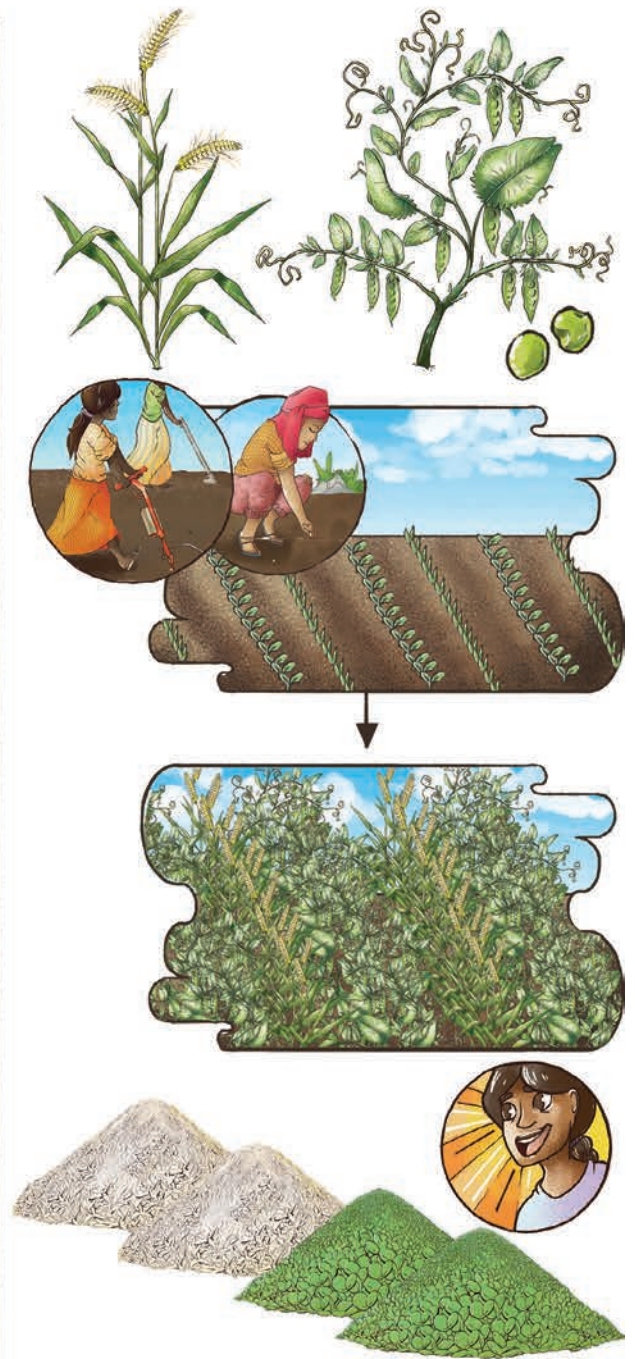
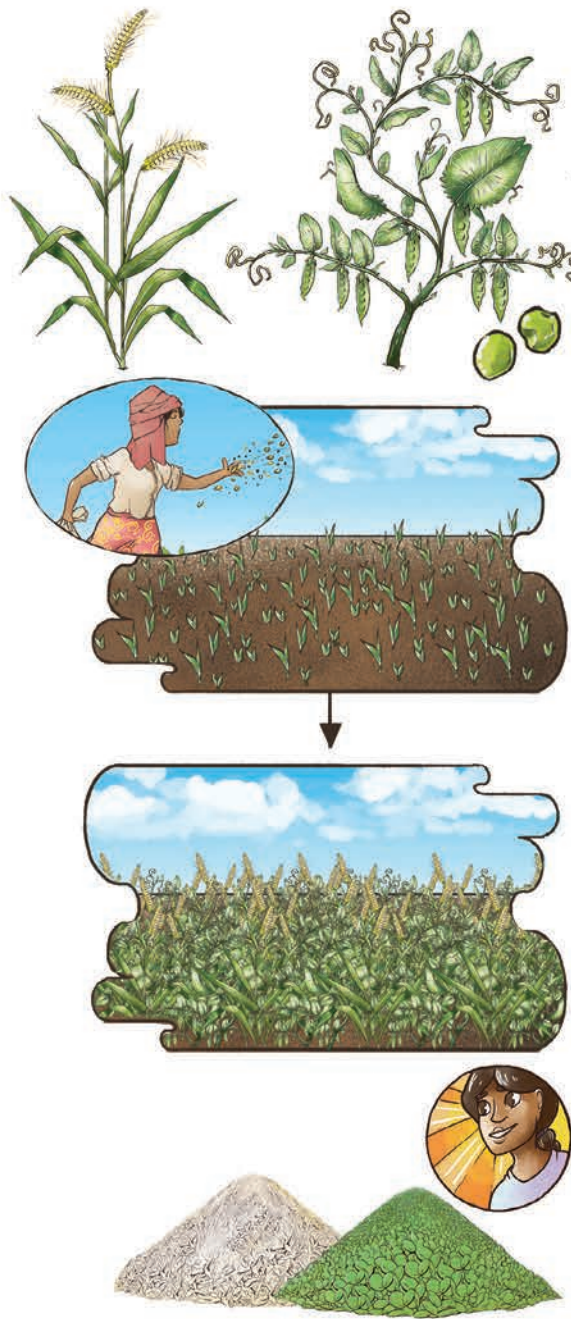
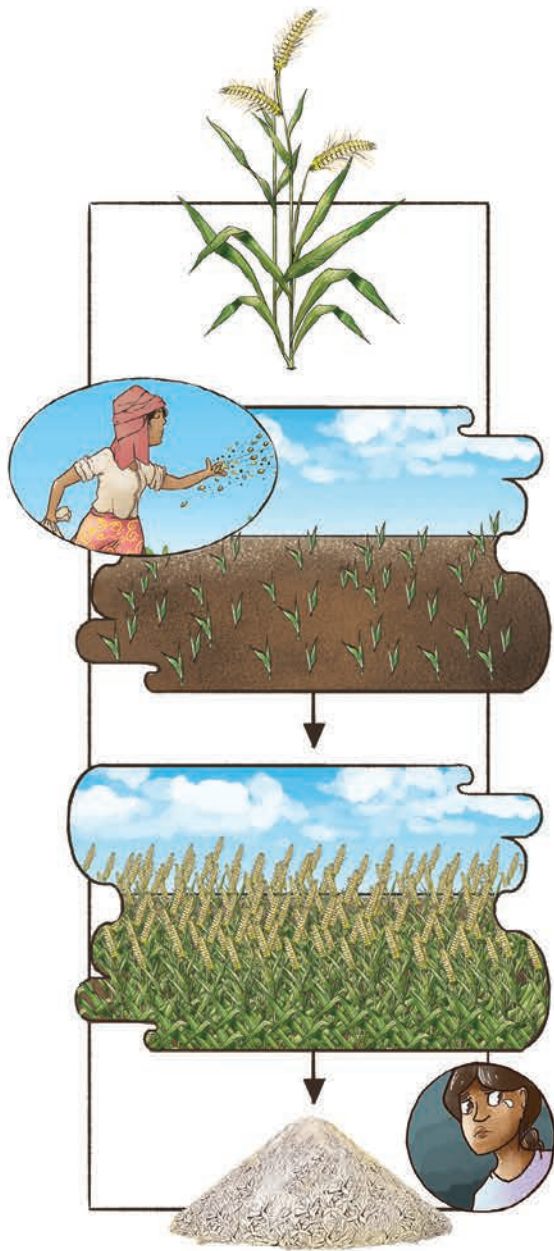


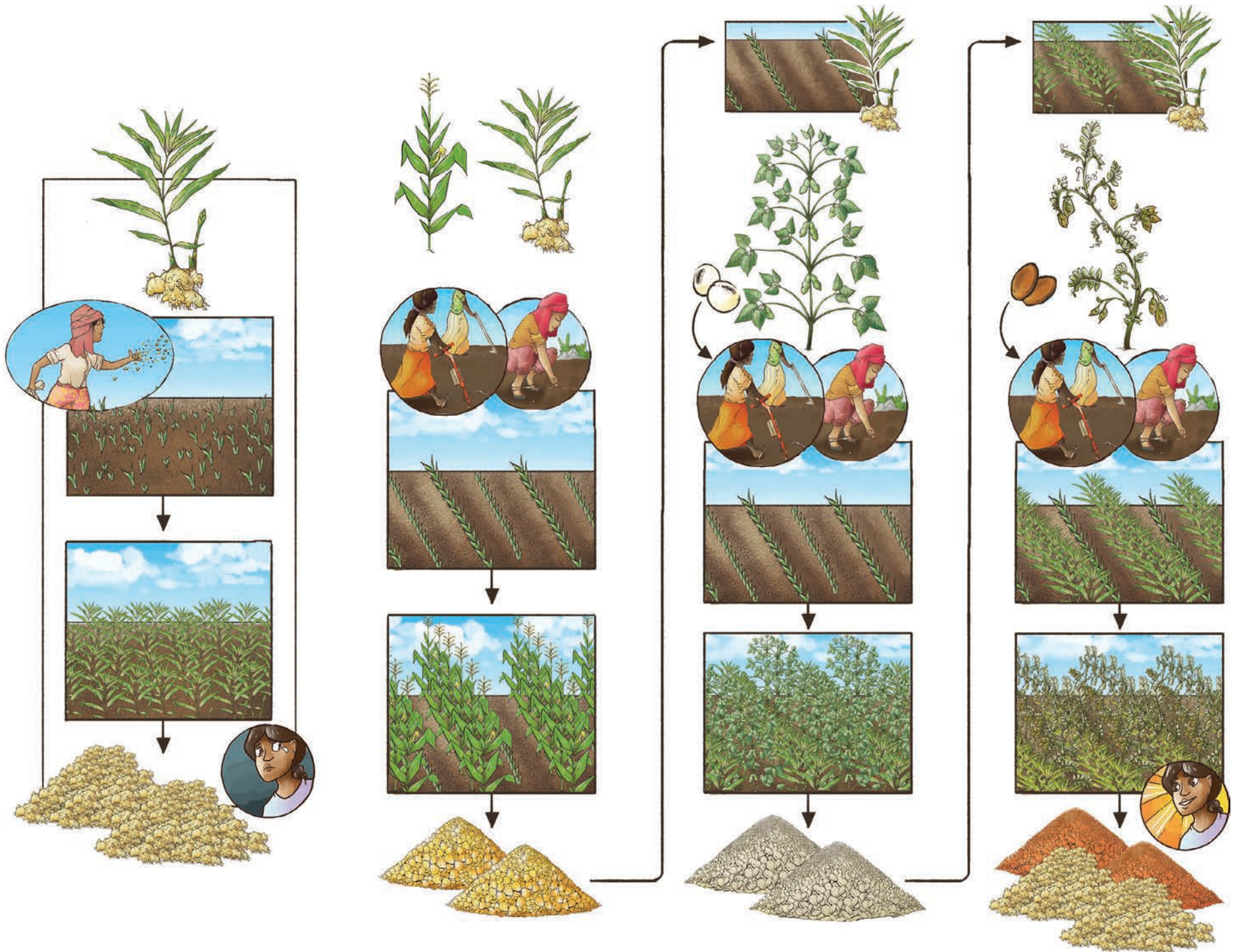


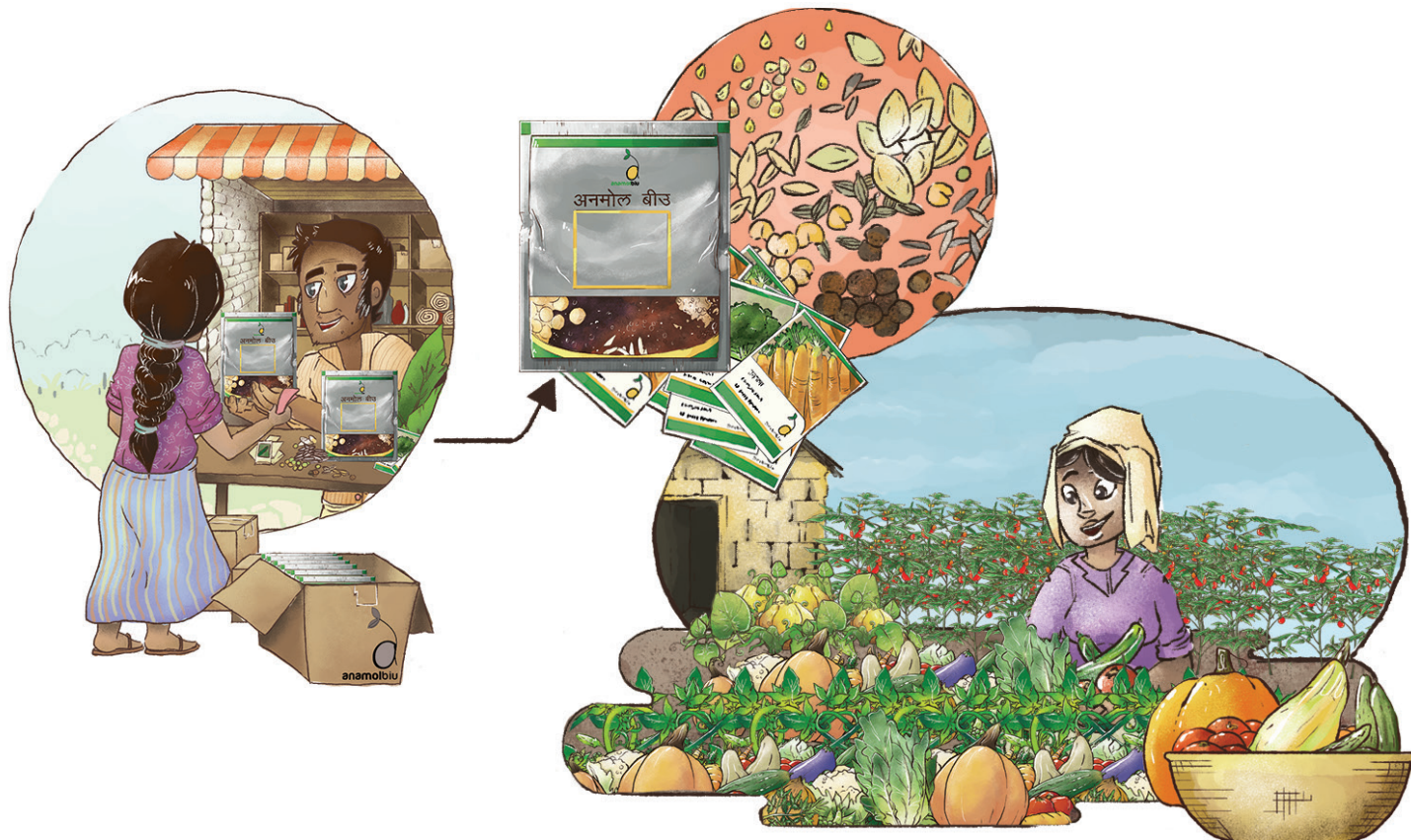


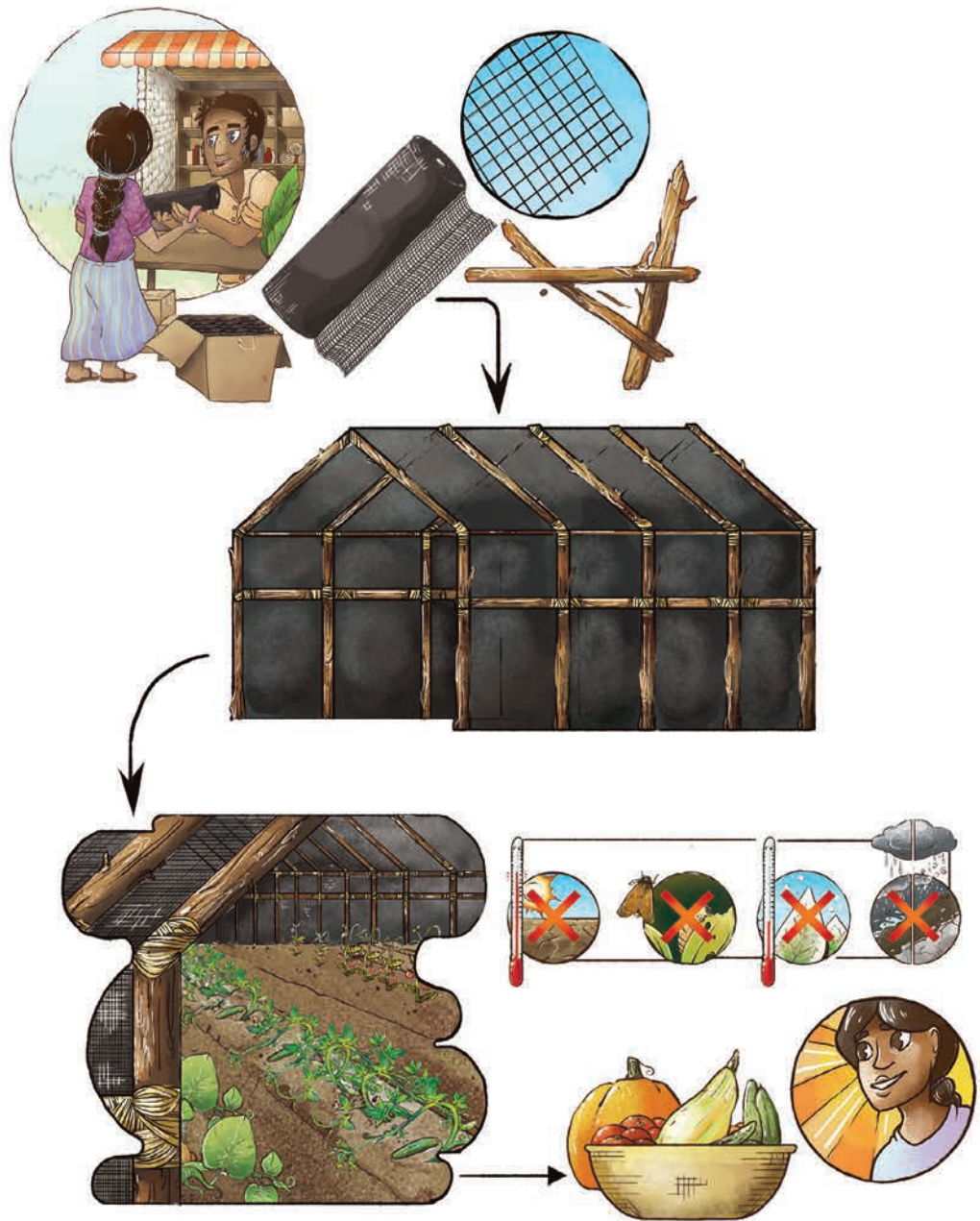
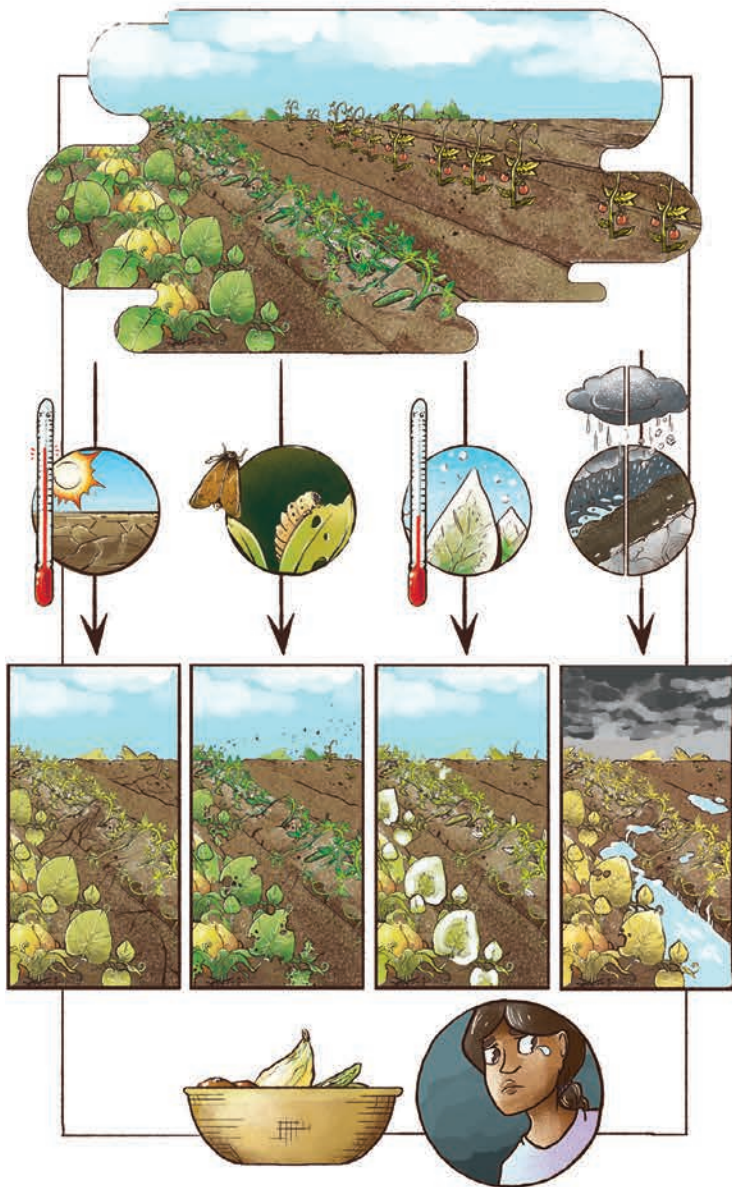


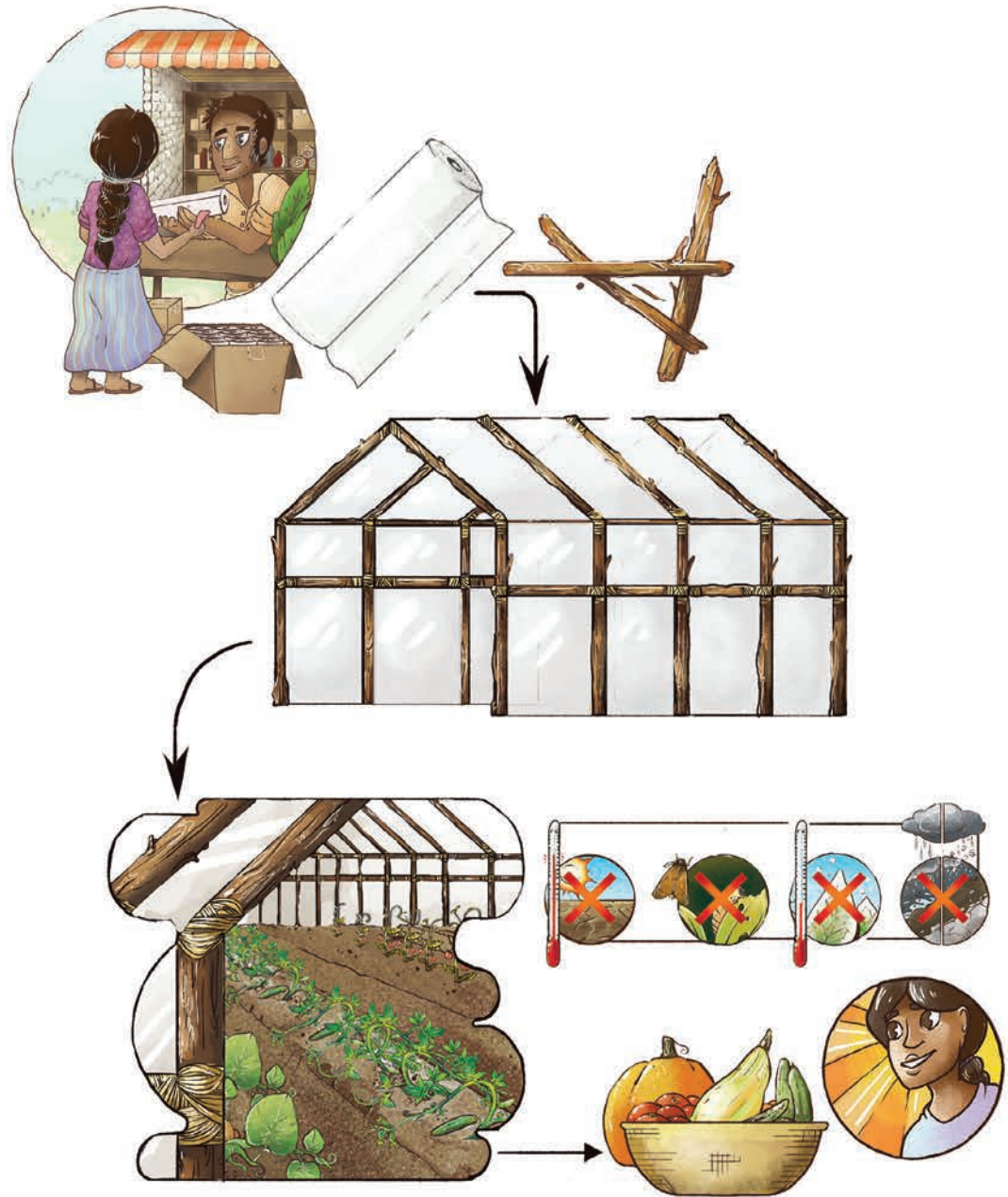
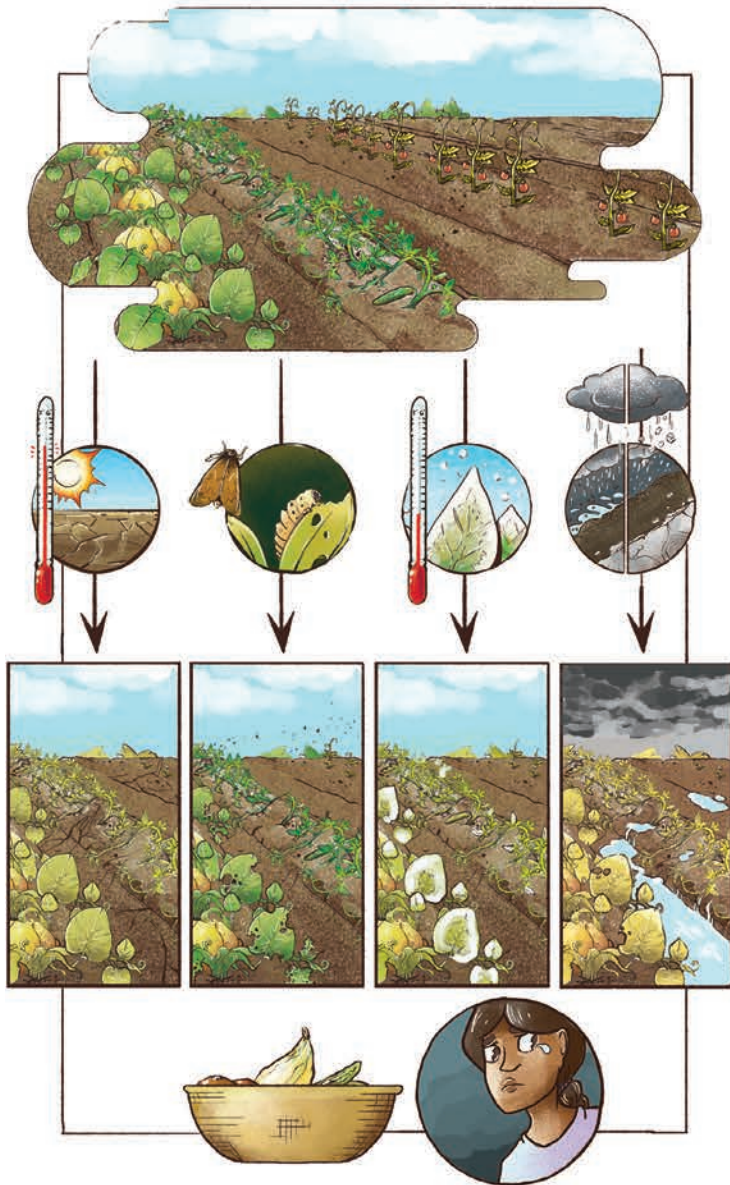


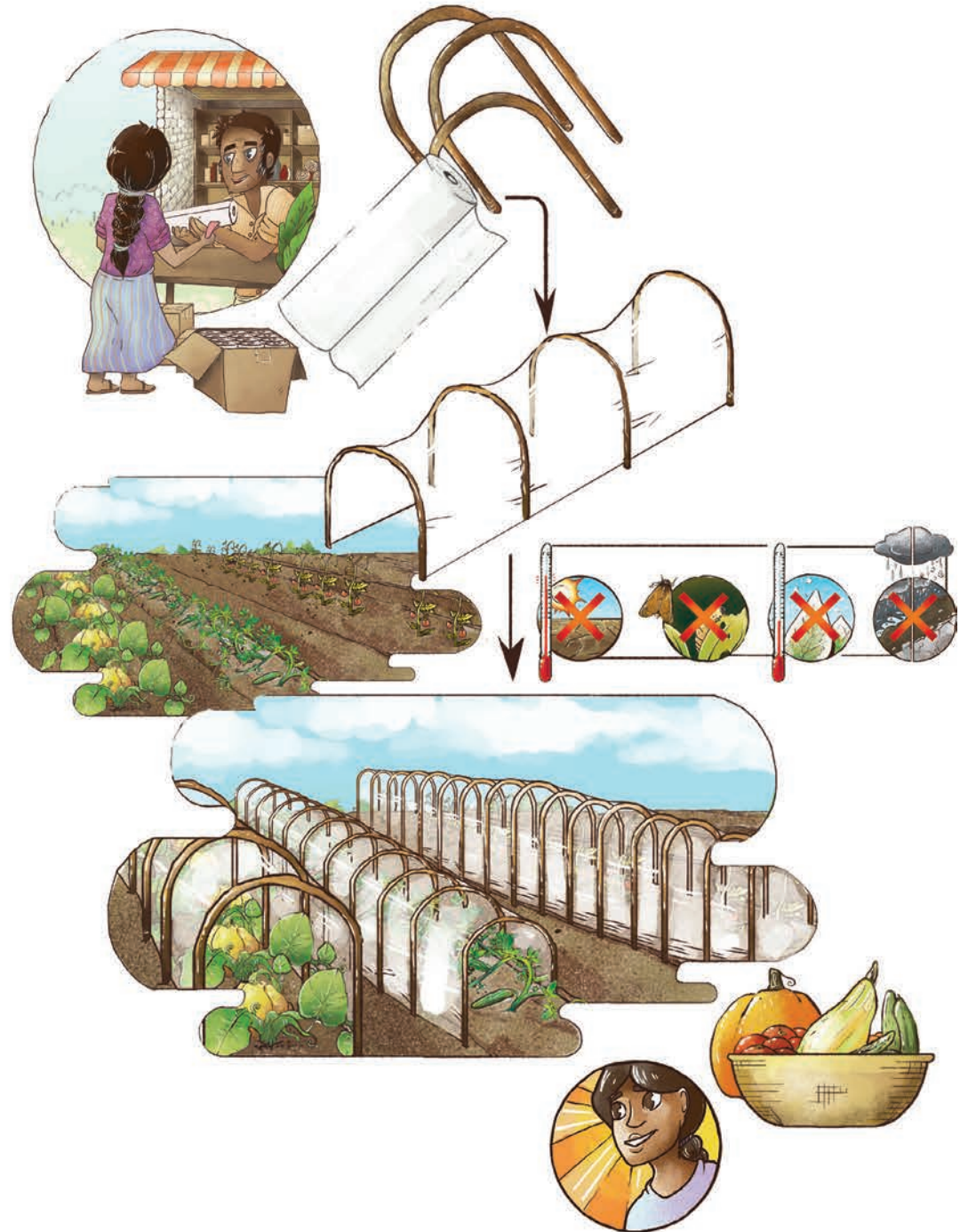
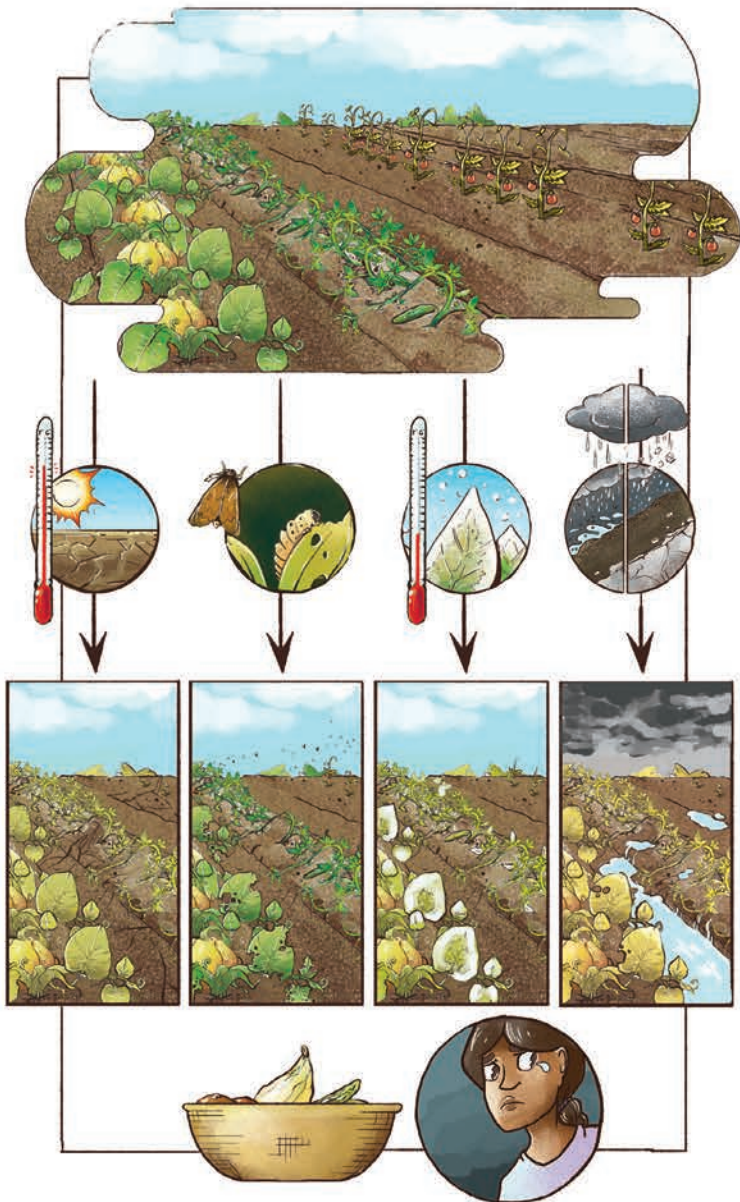


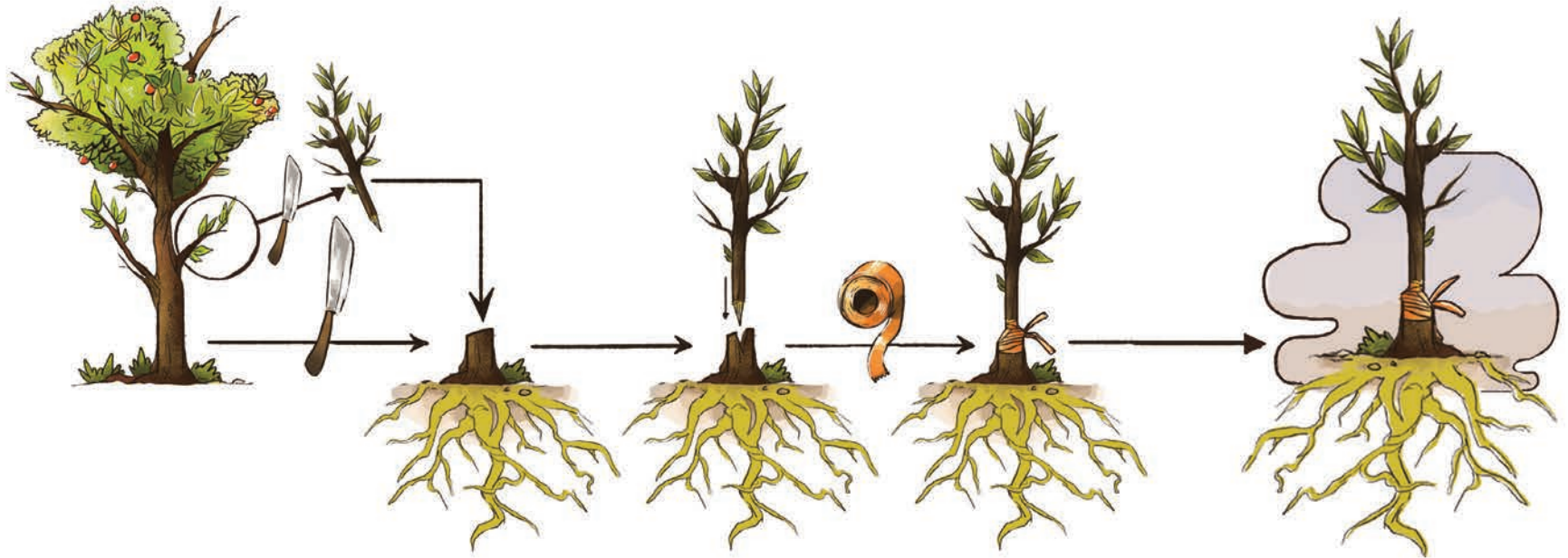
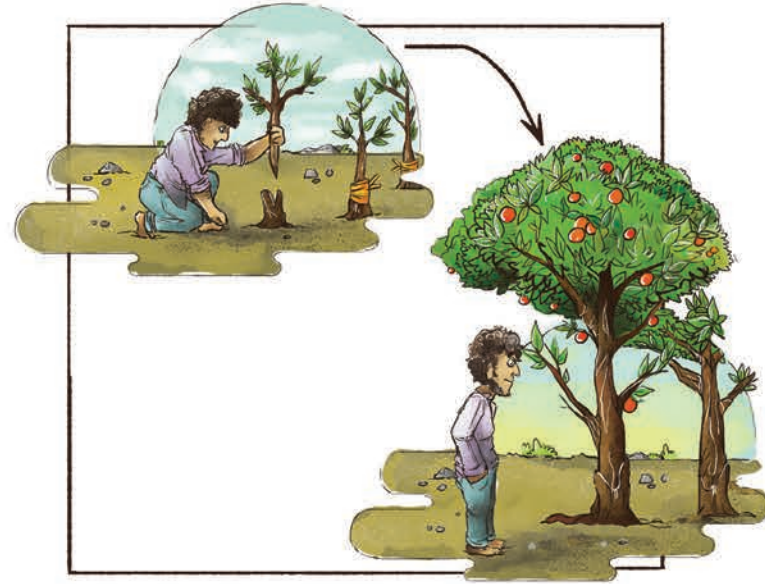
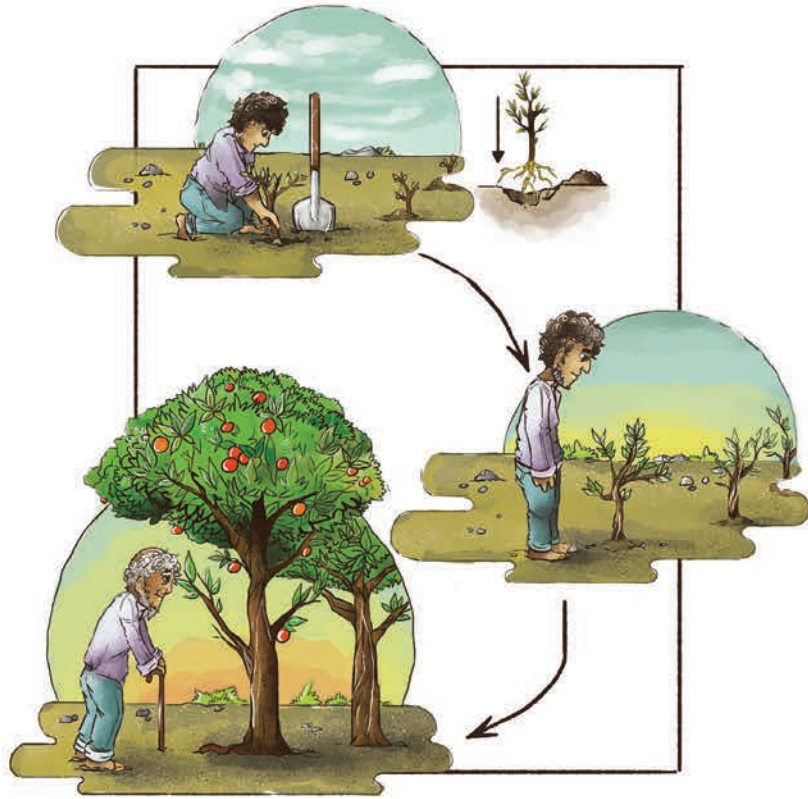


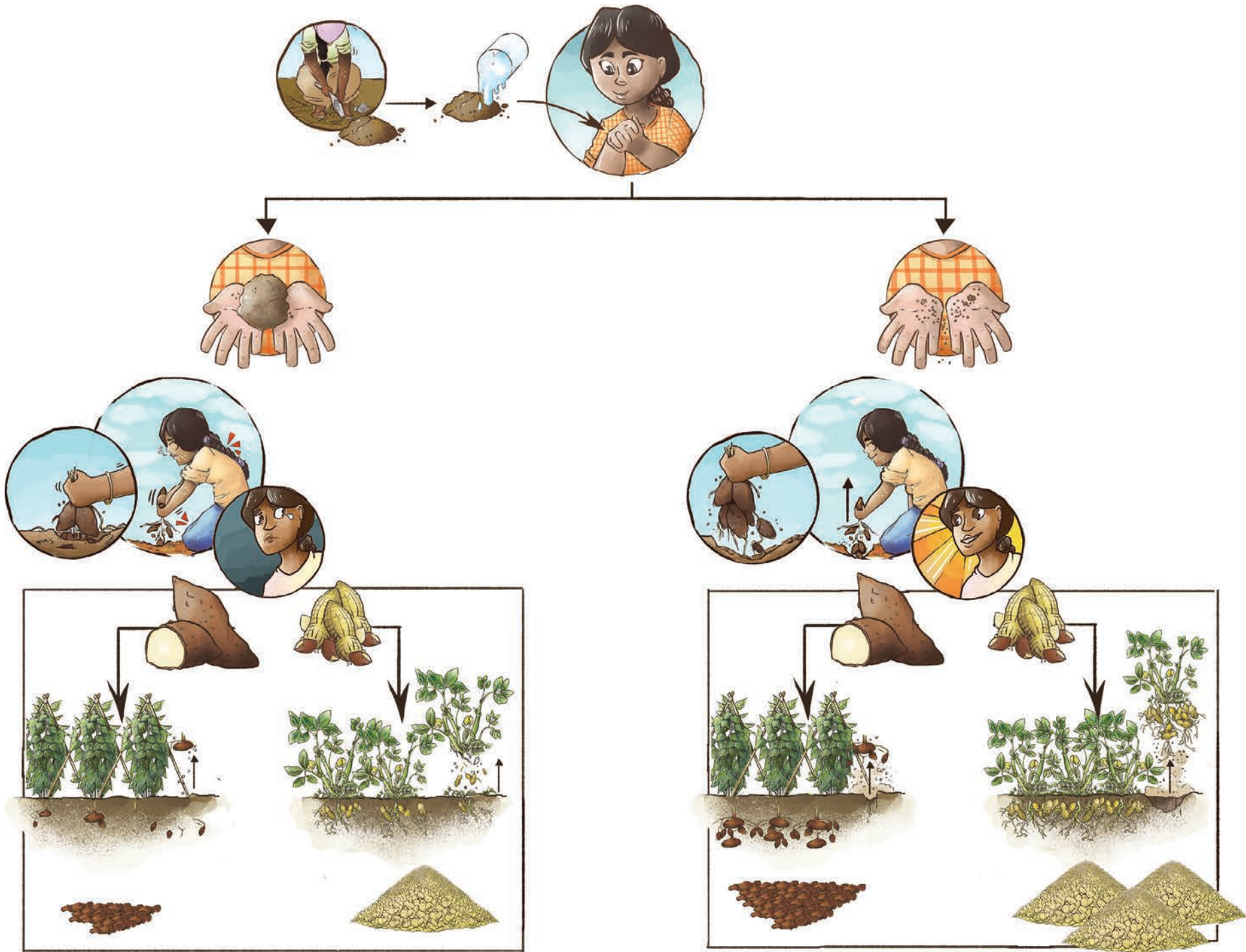




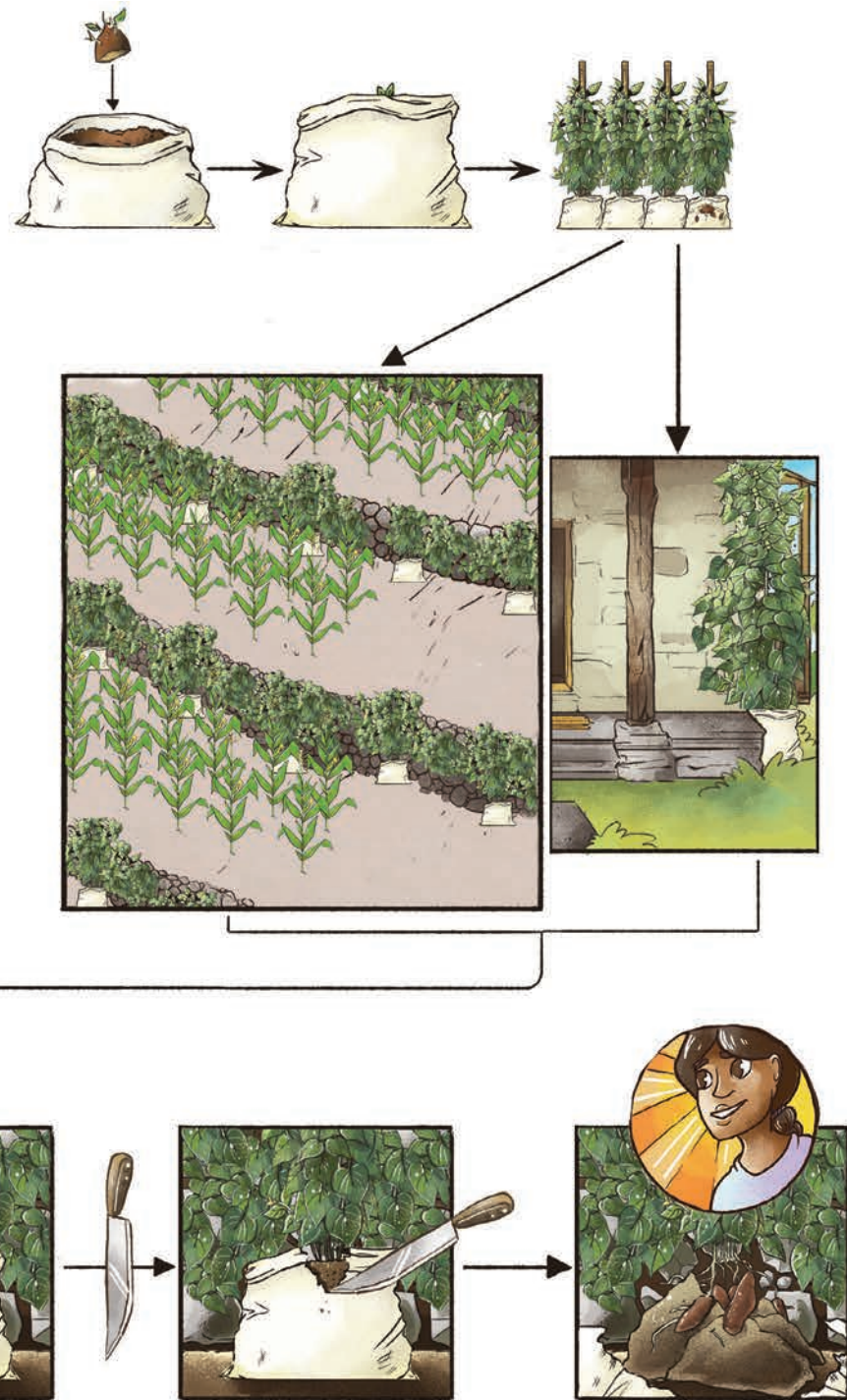
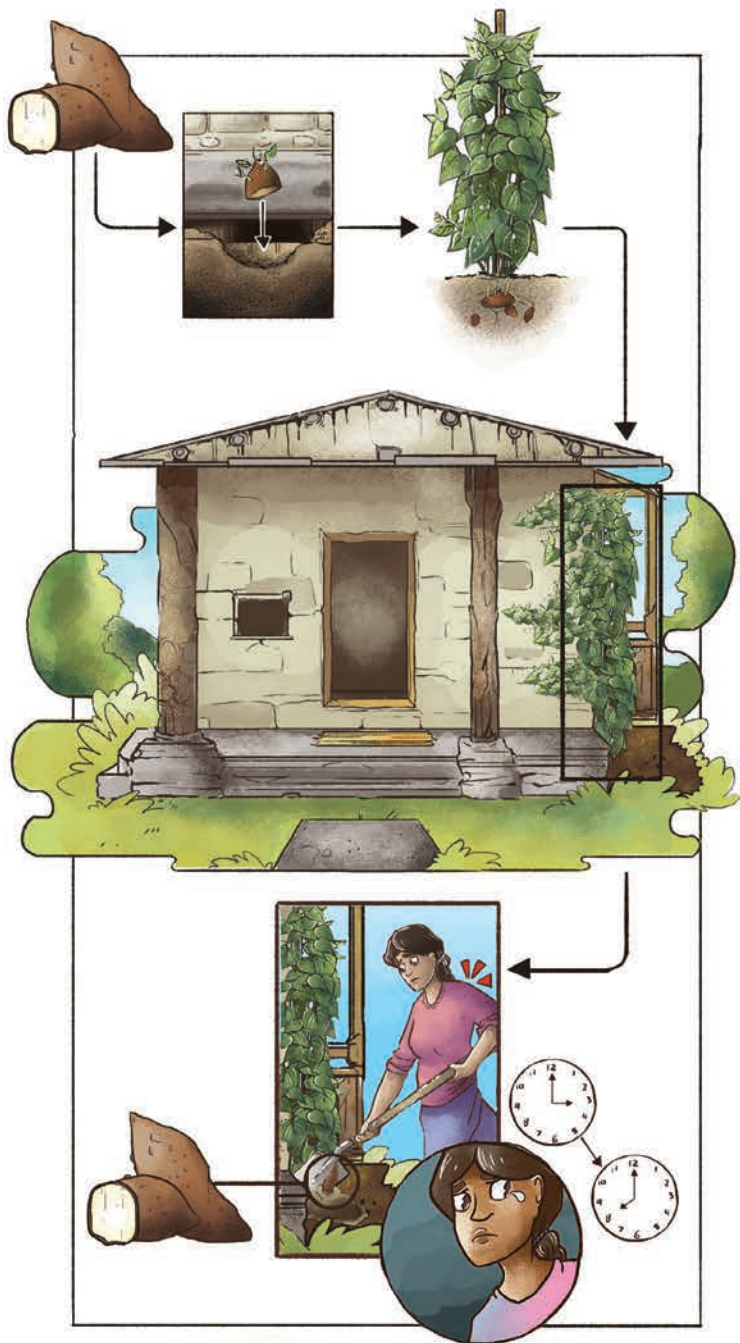


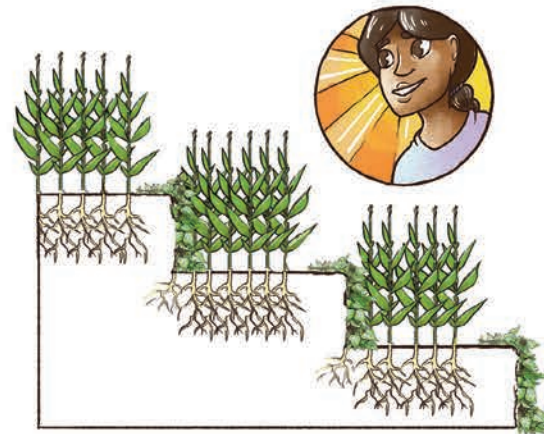
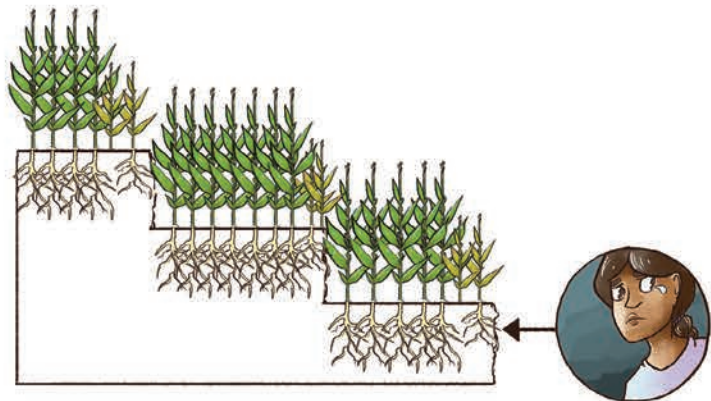
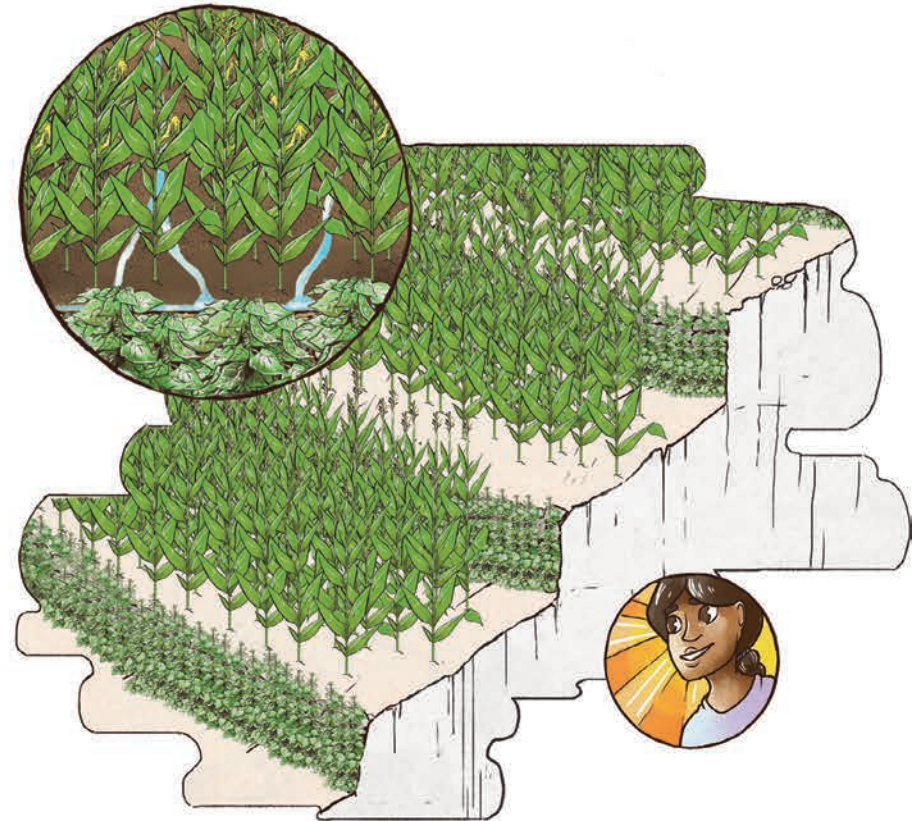
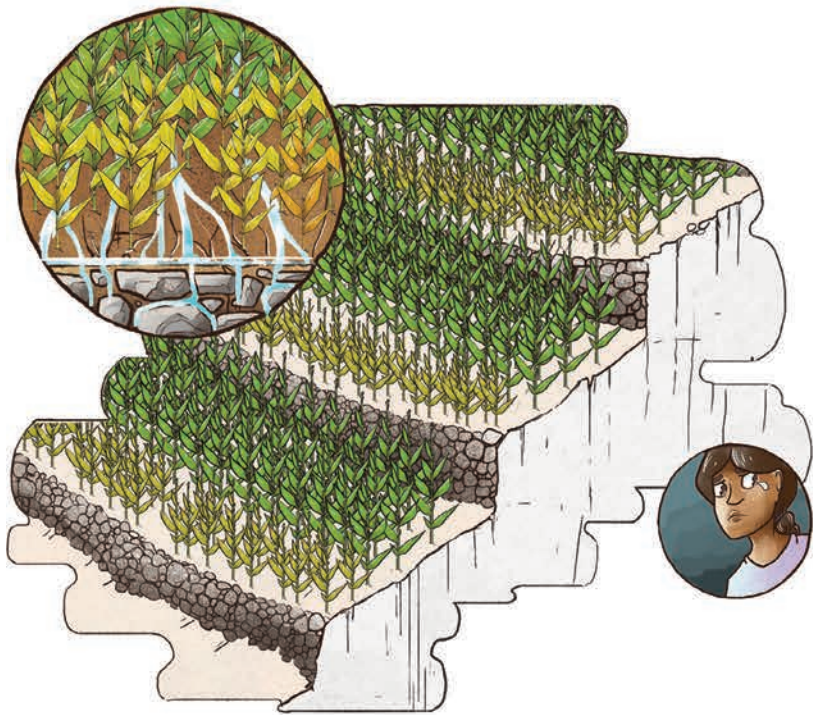


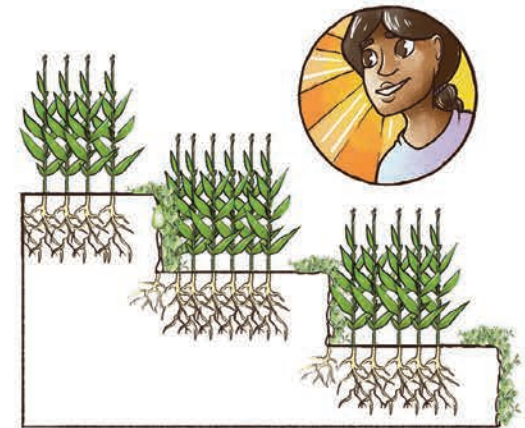
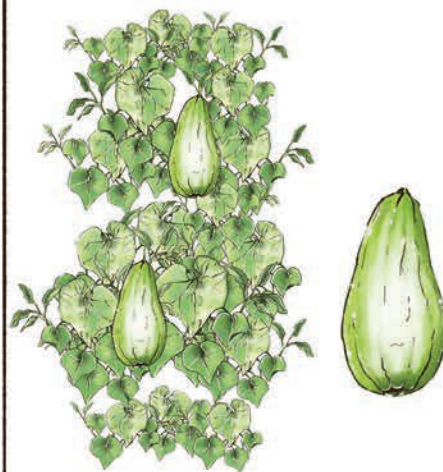
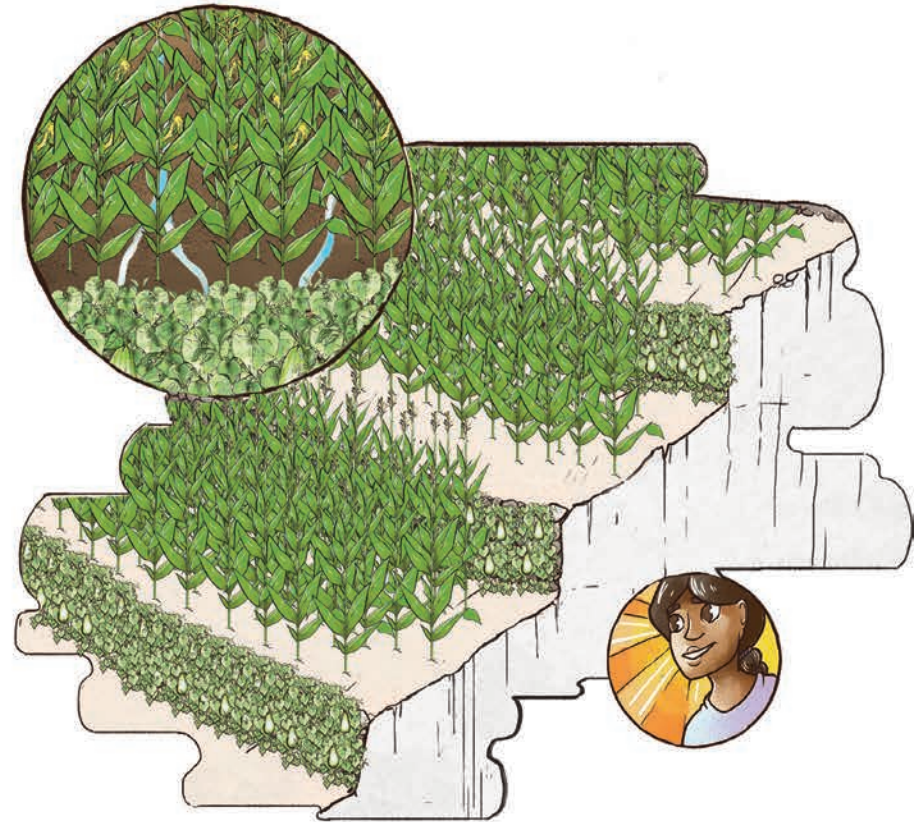
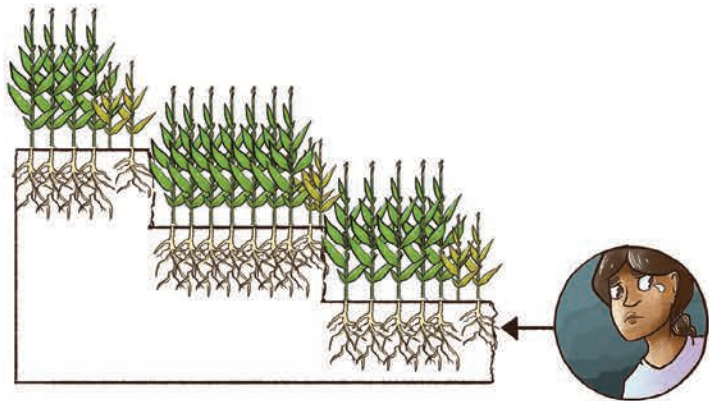
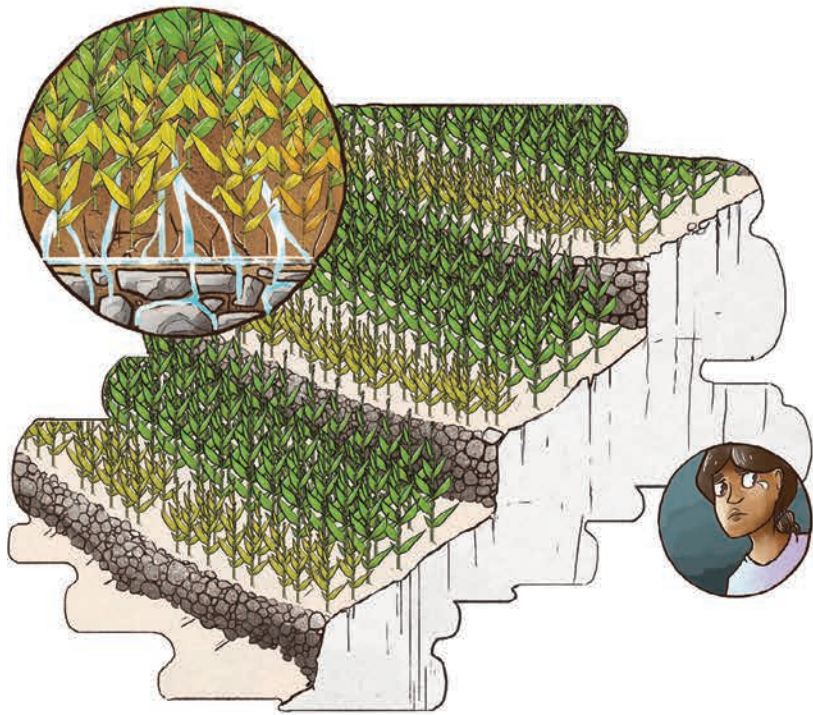


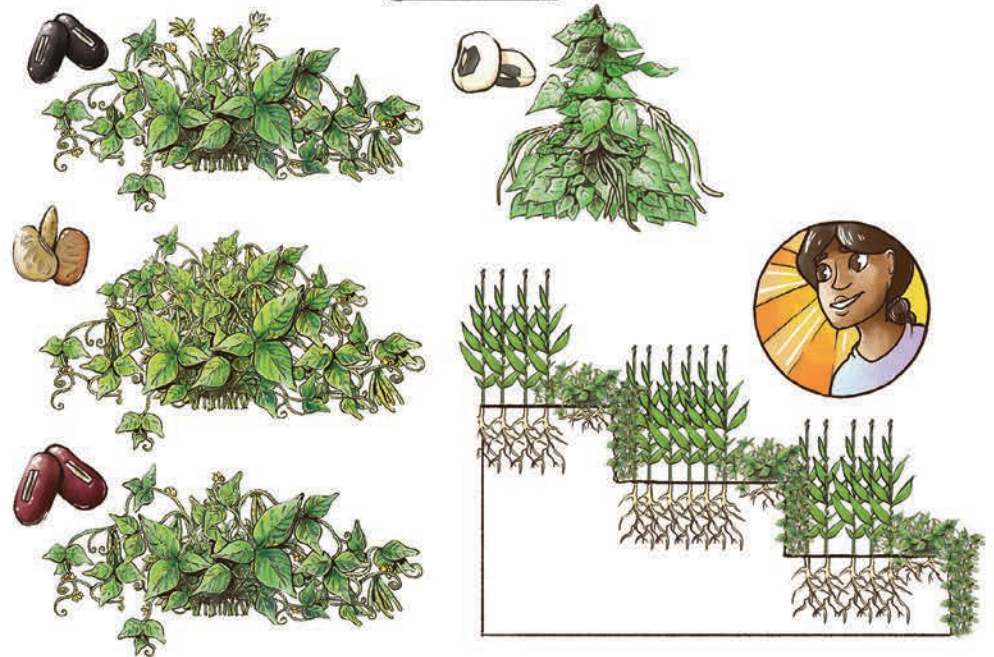
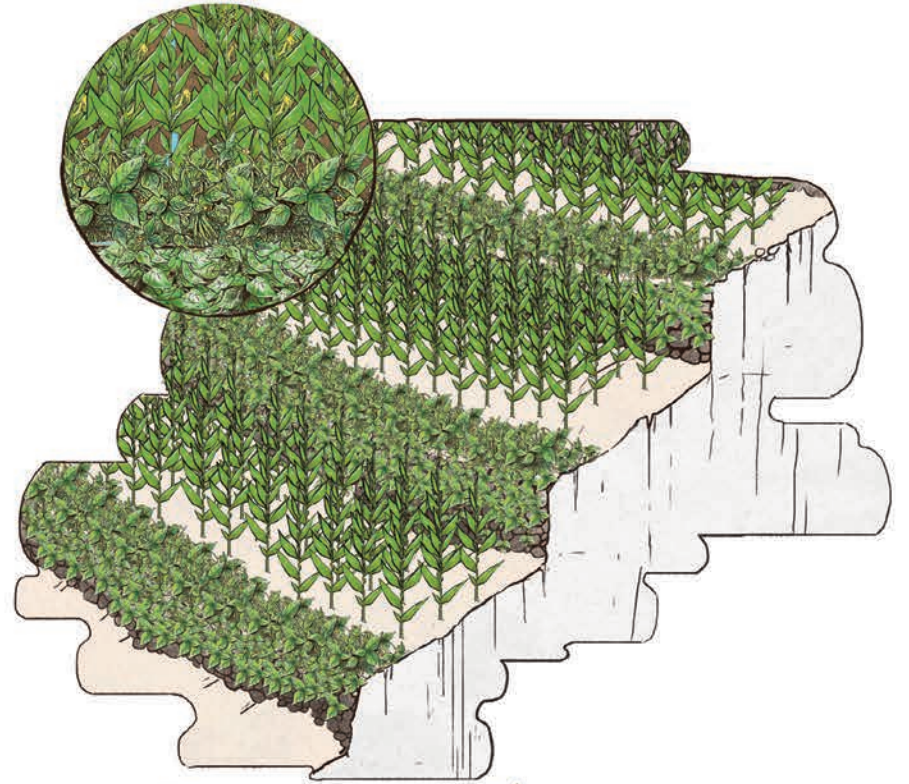
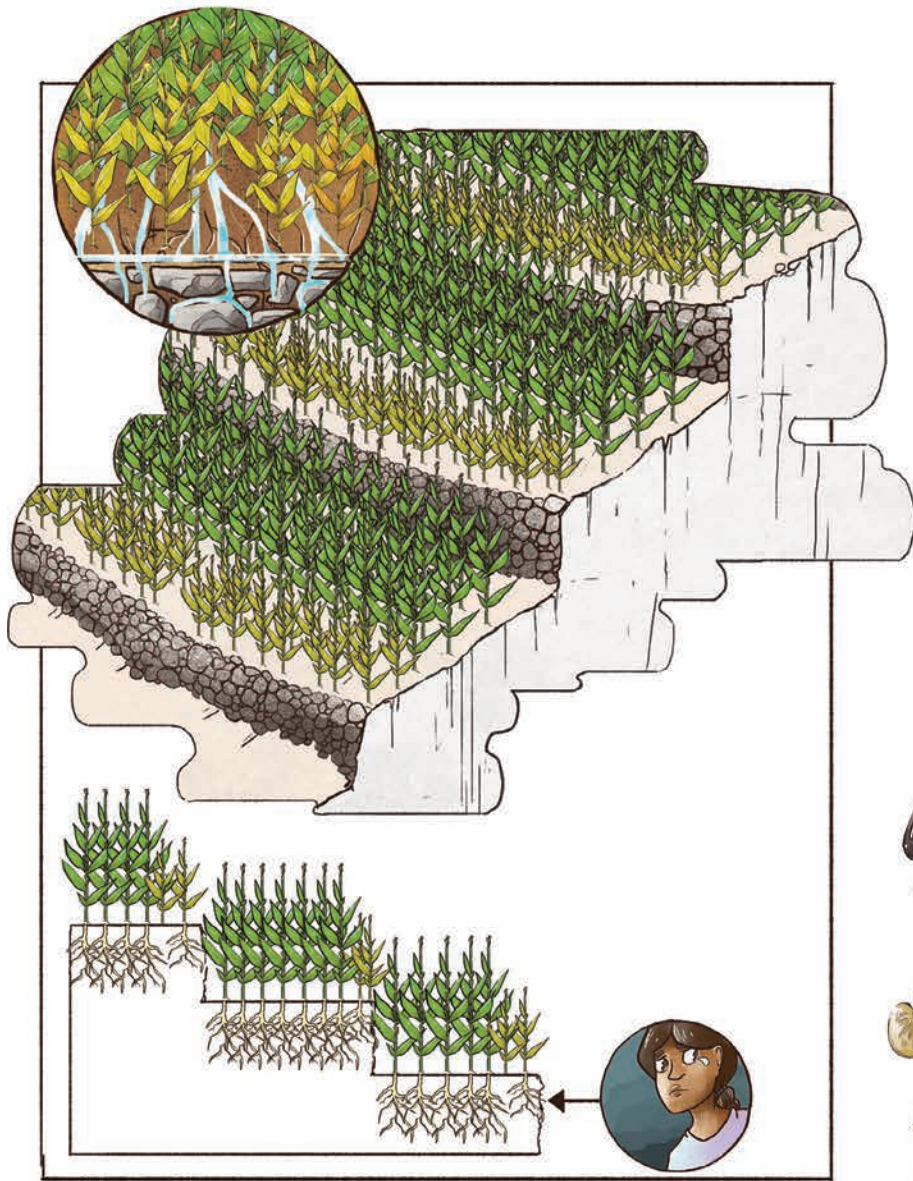


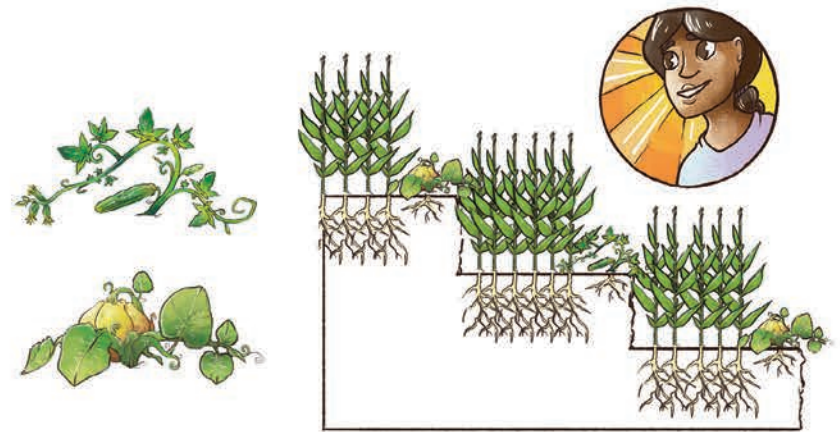
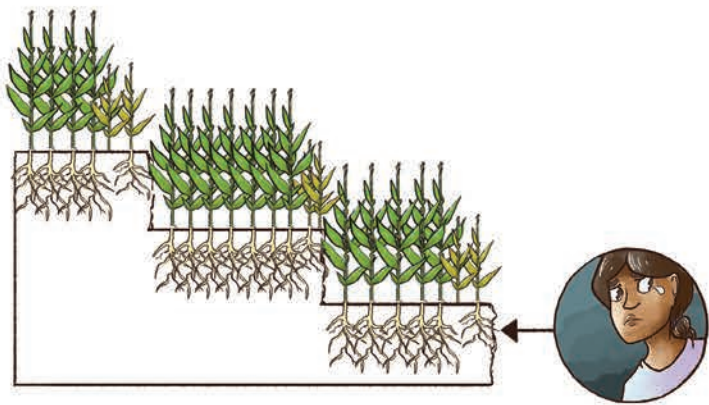
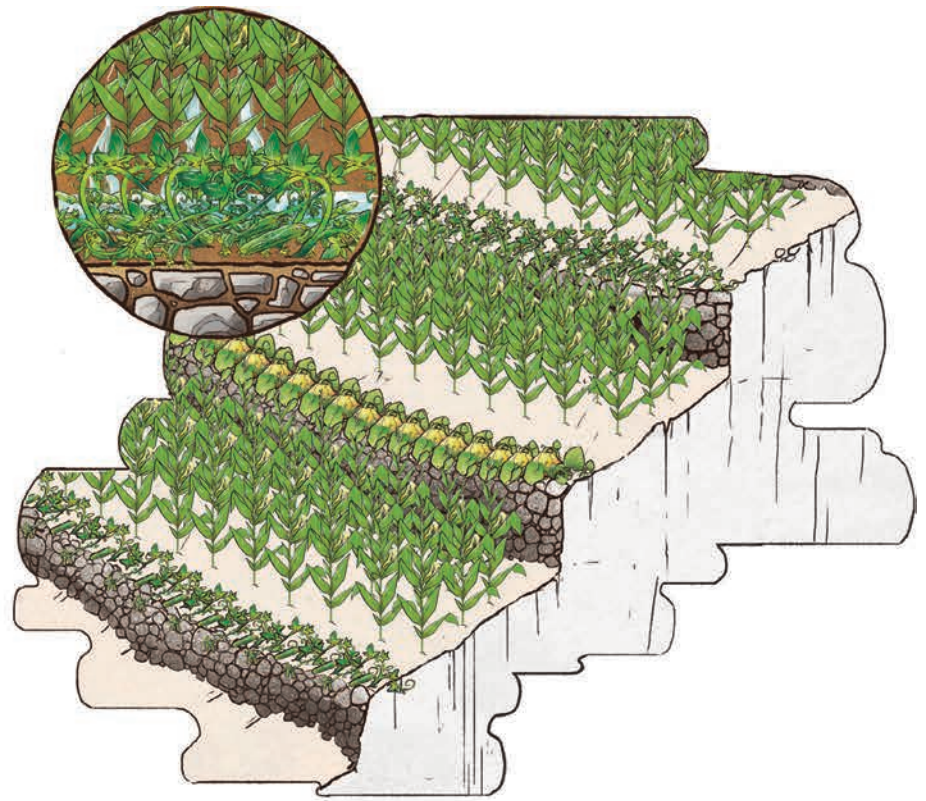
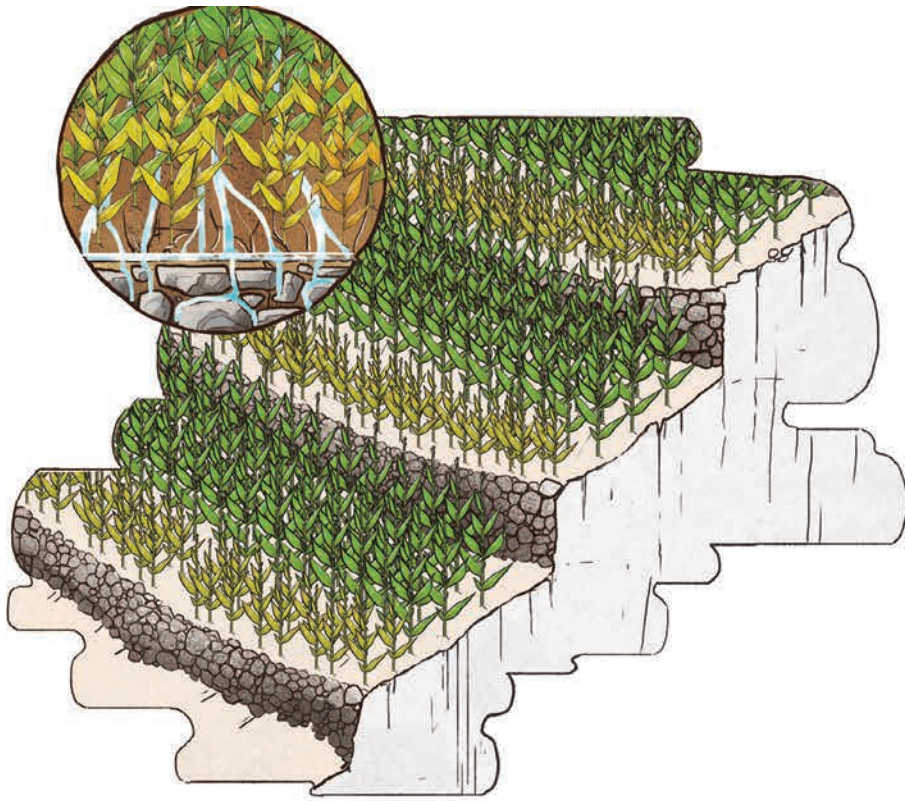
Chapter 4: Terrace Agriculture



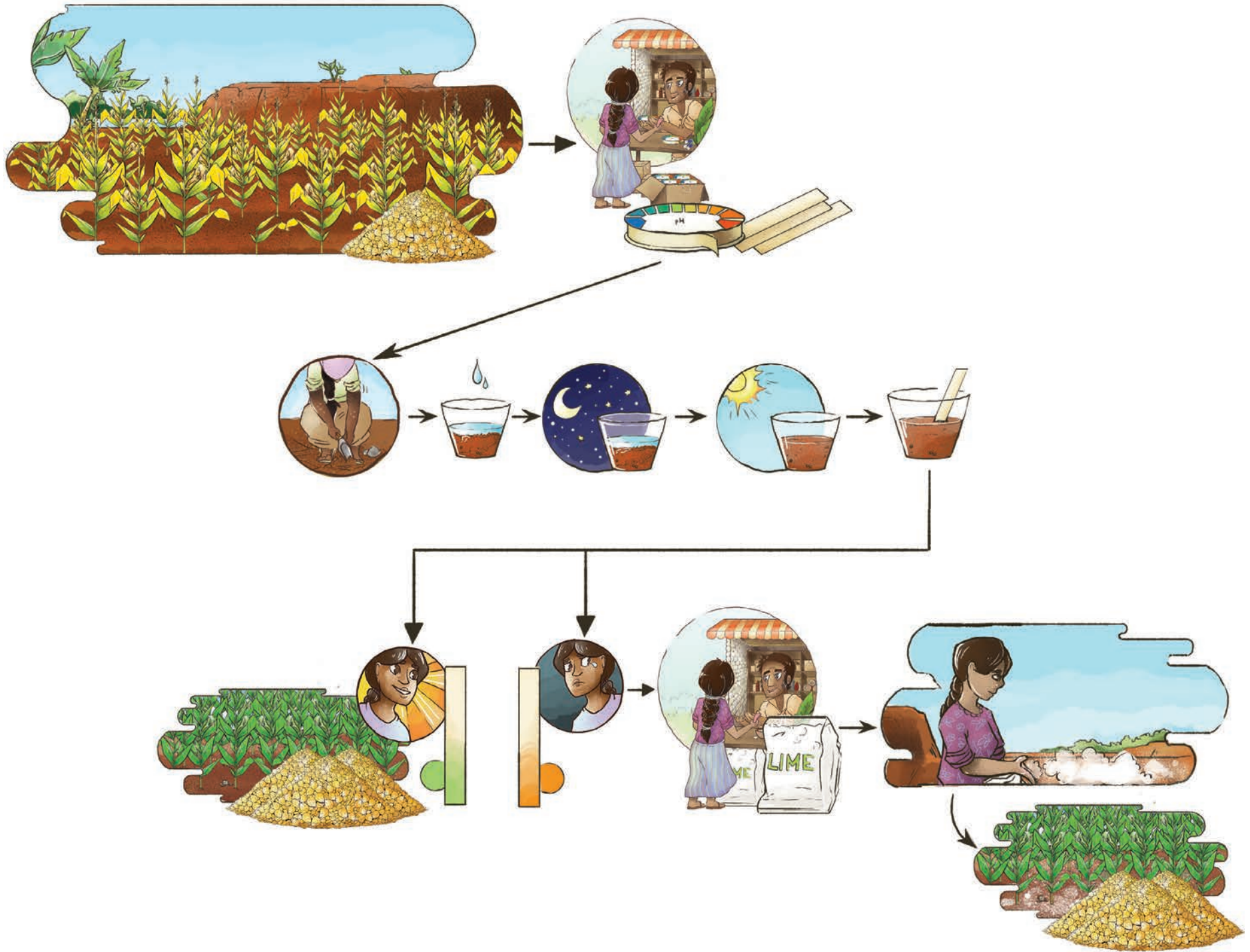


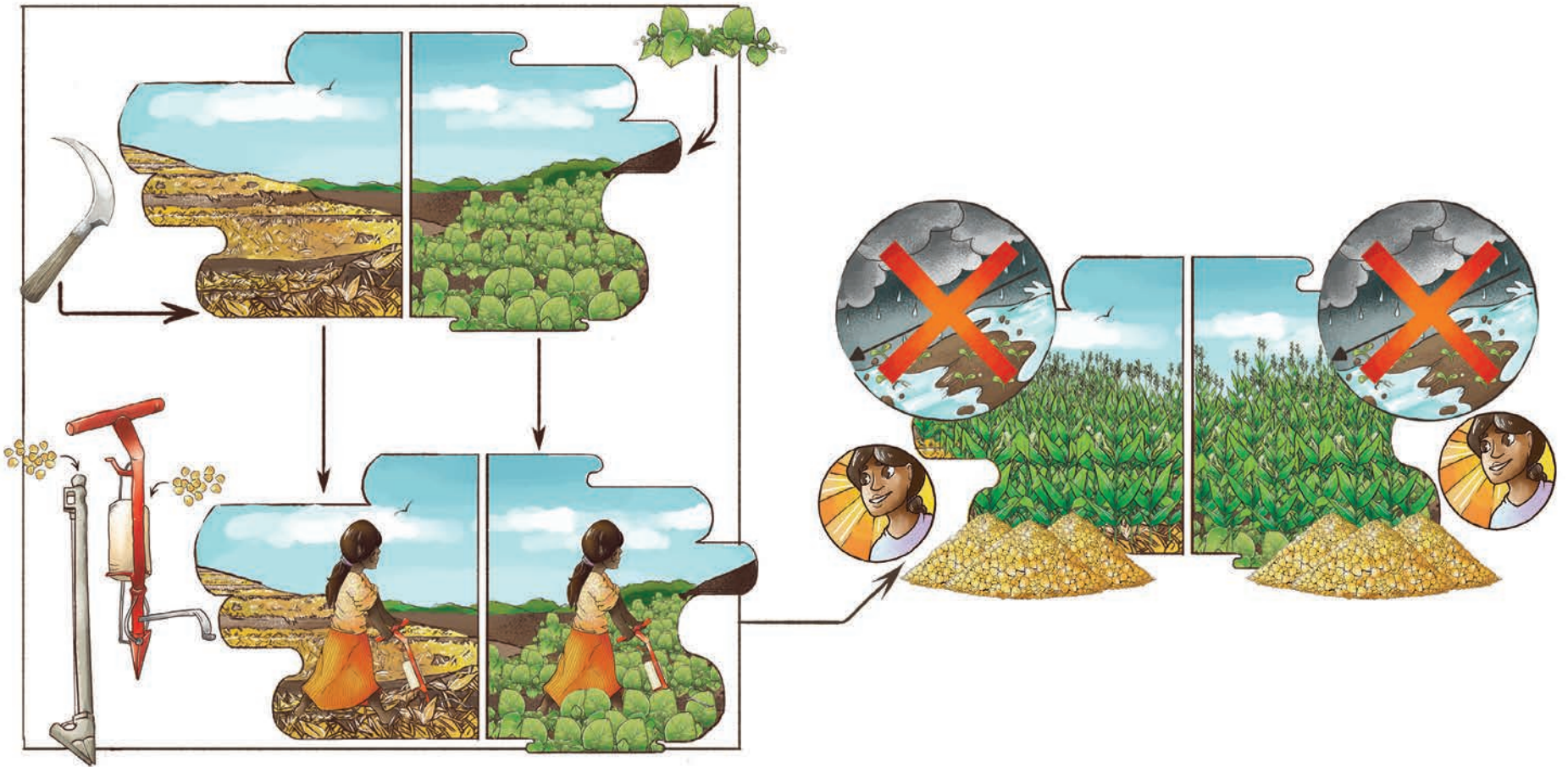
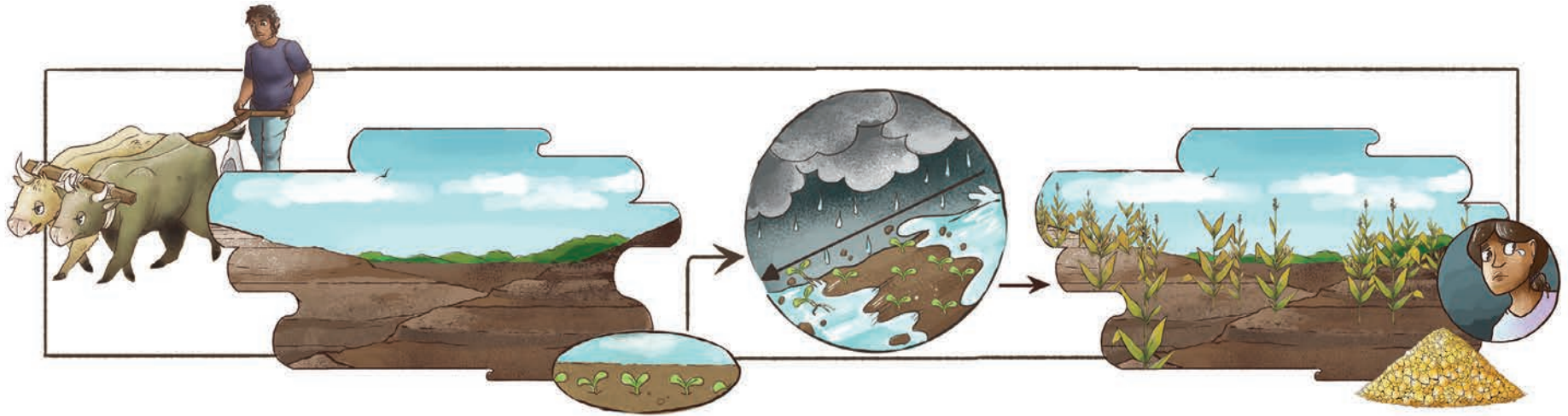


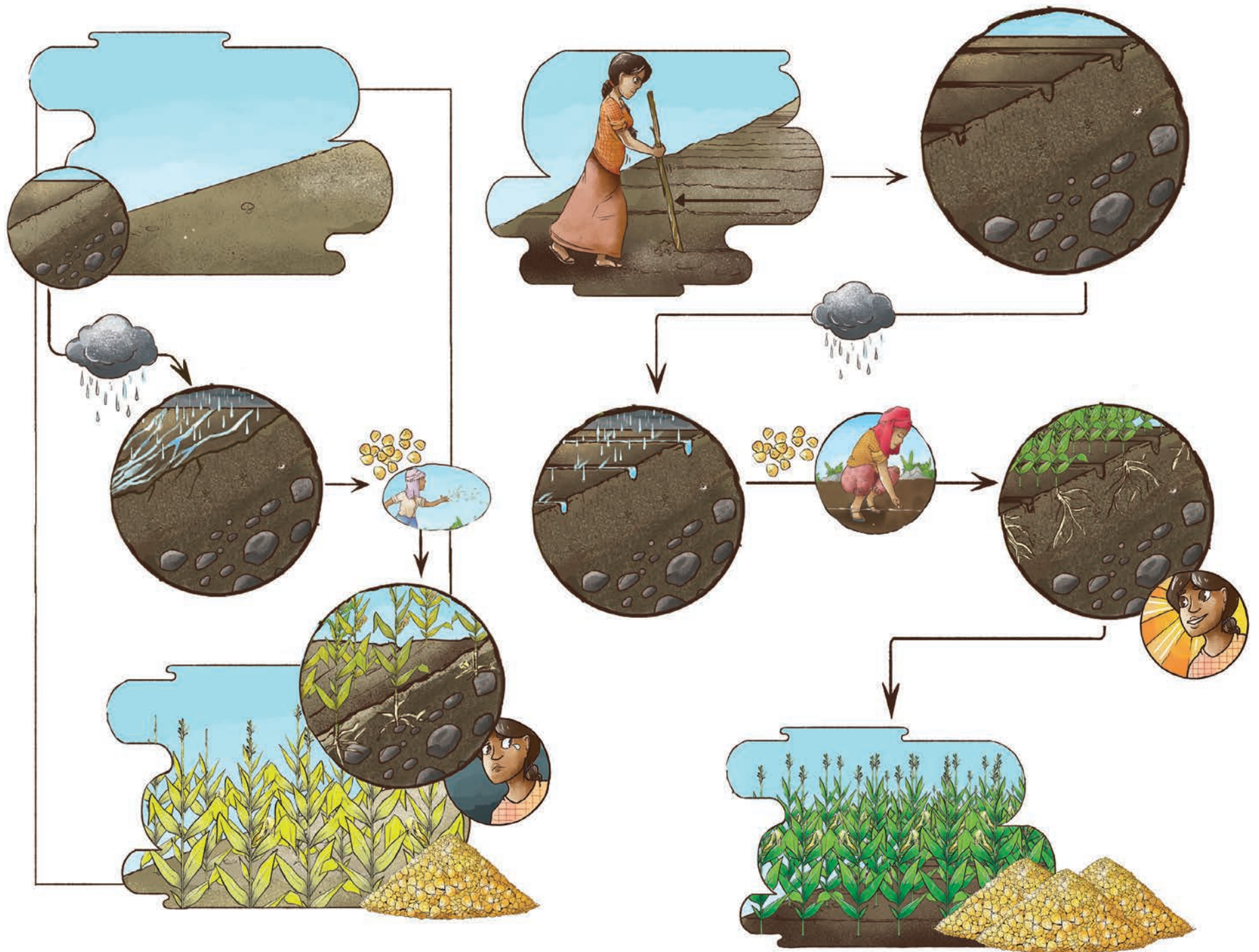


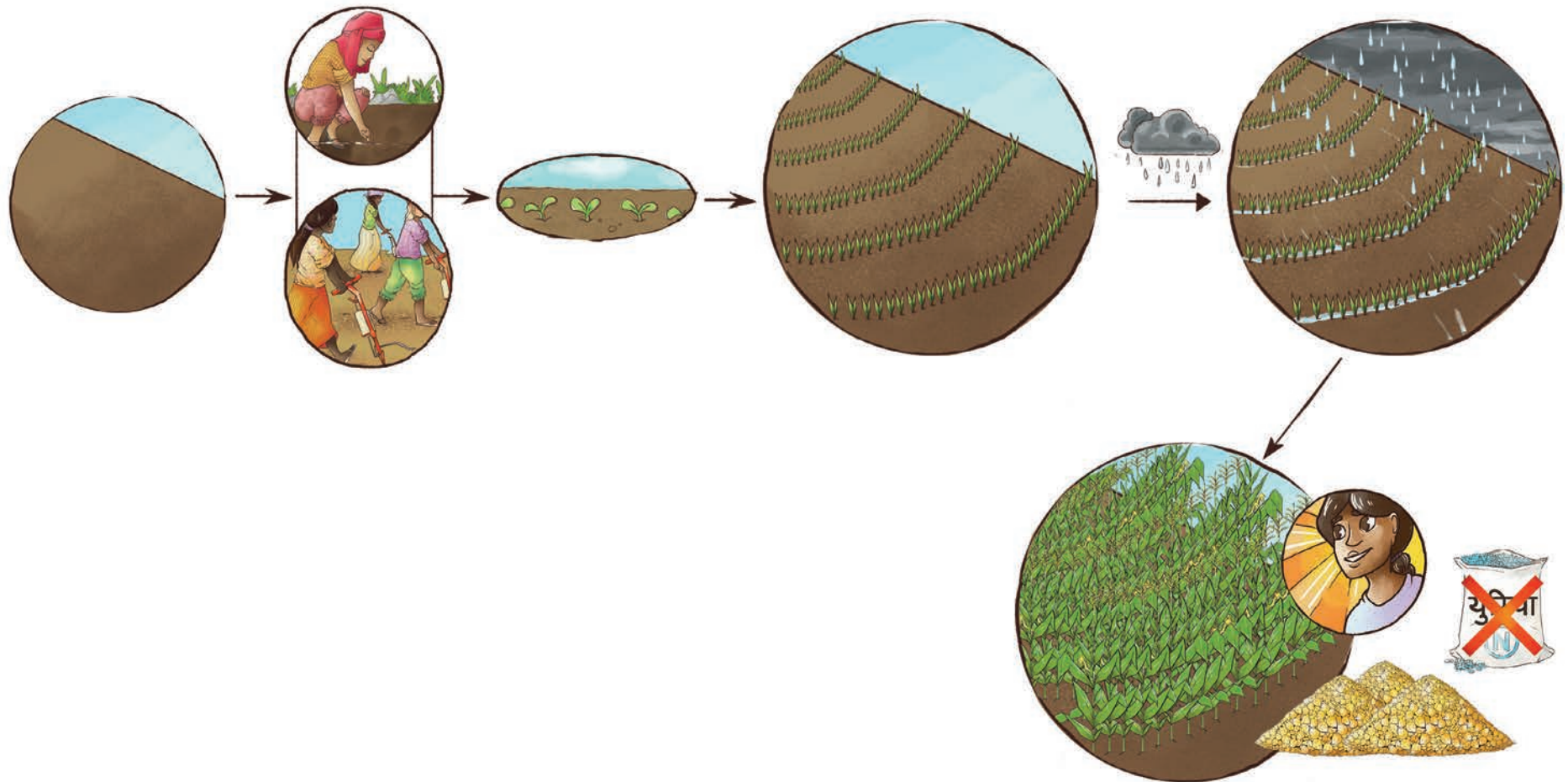
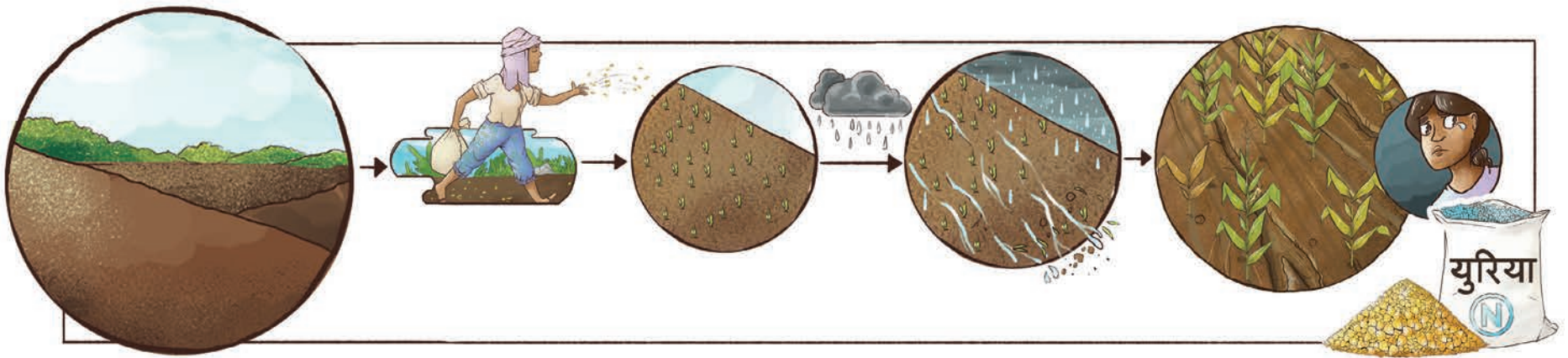


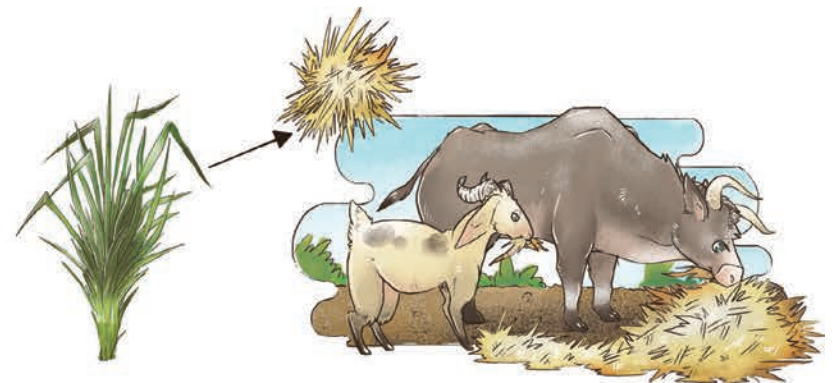
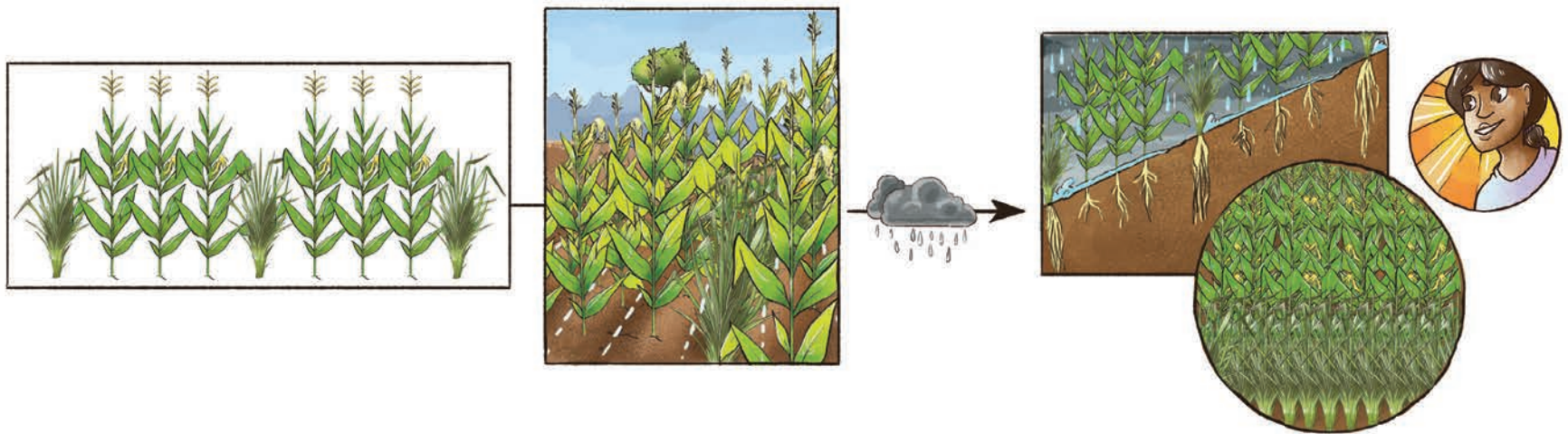
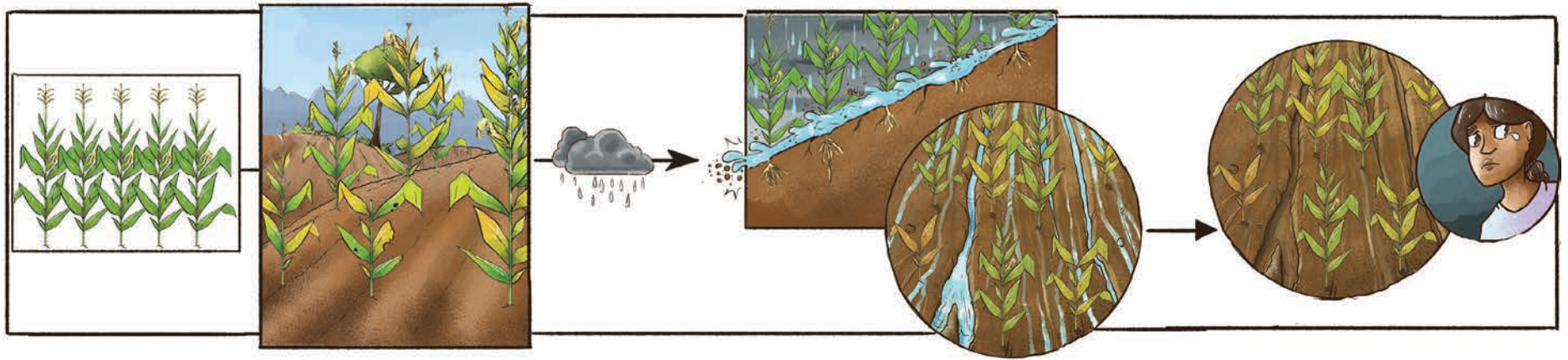
Chapter 5: Soil Health

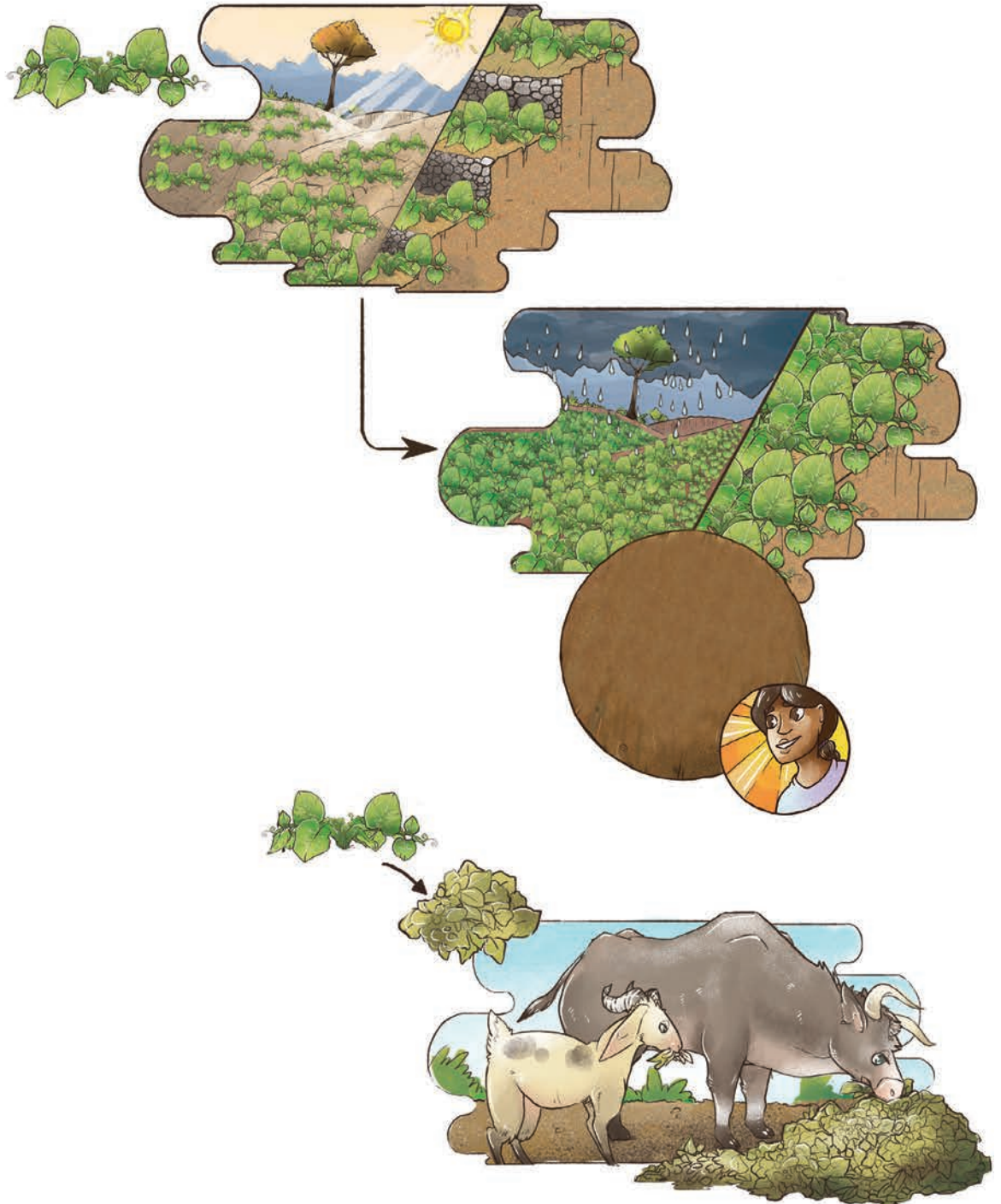
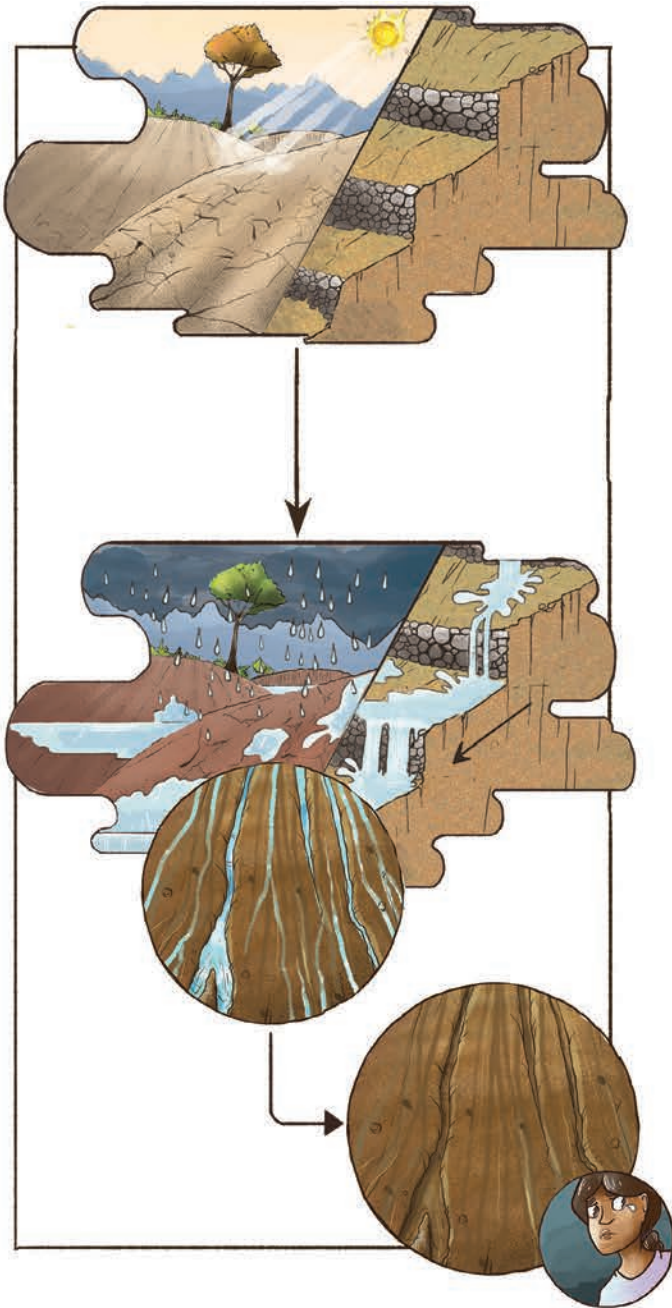


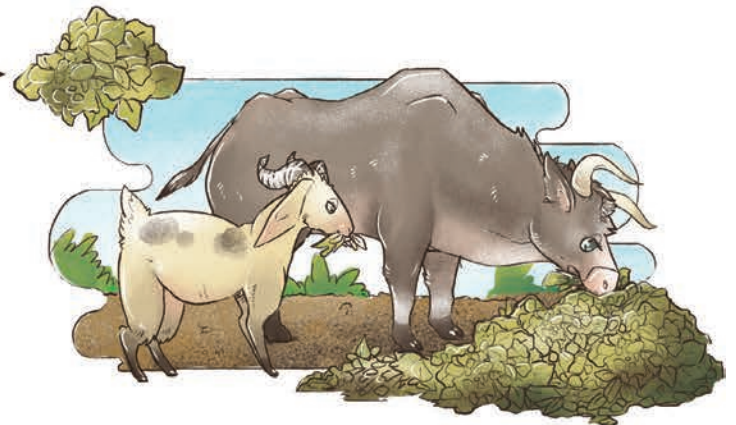
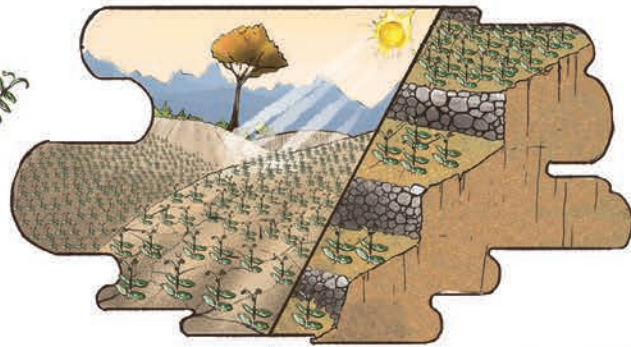
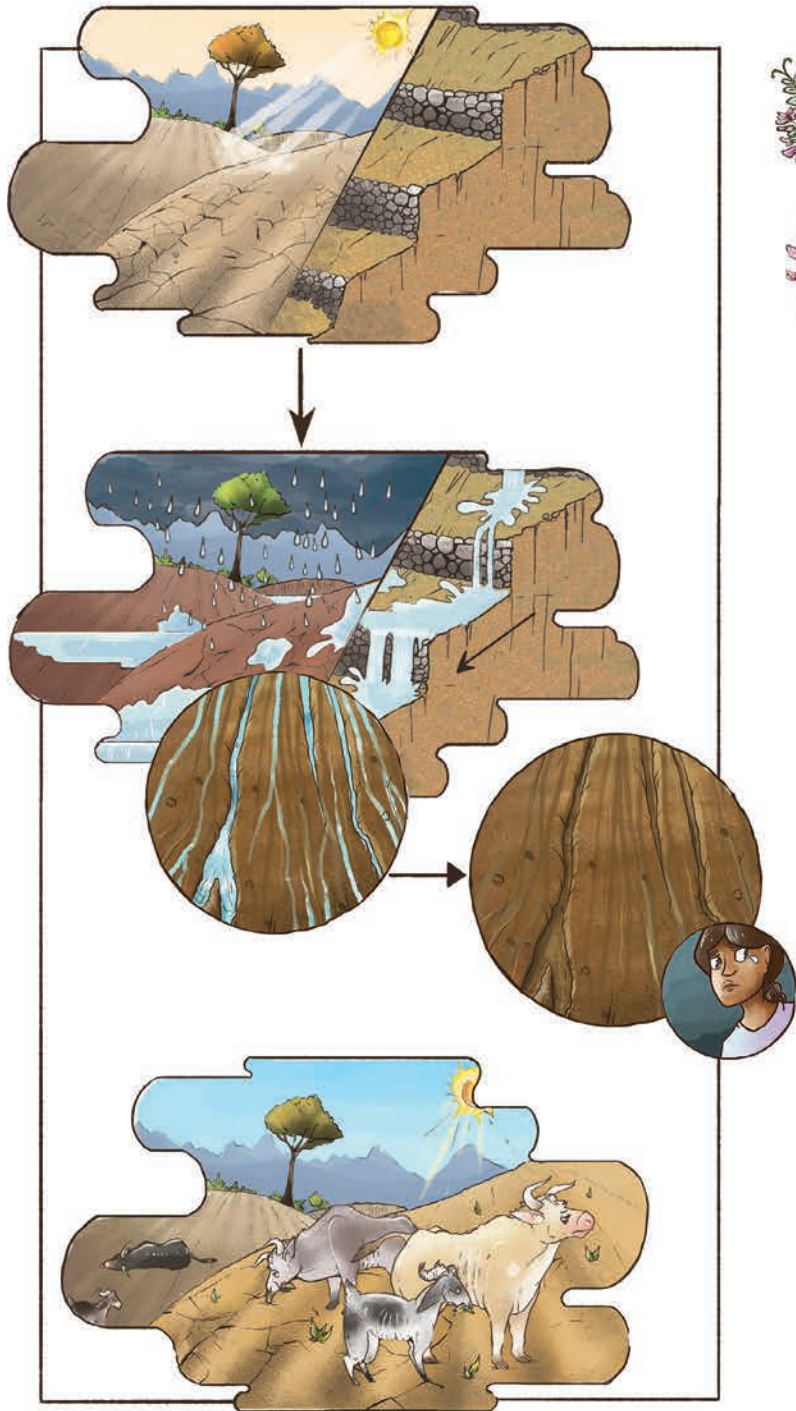


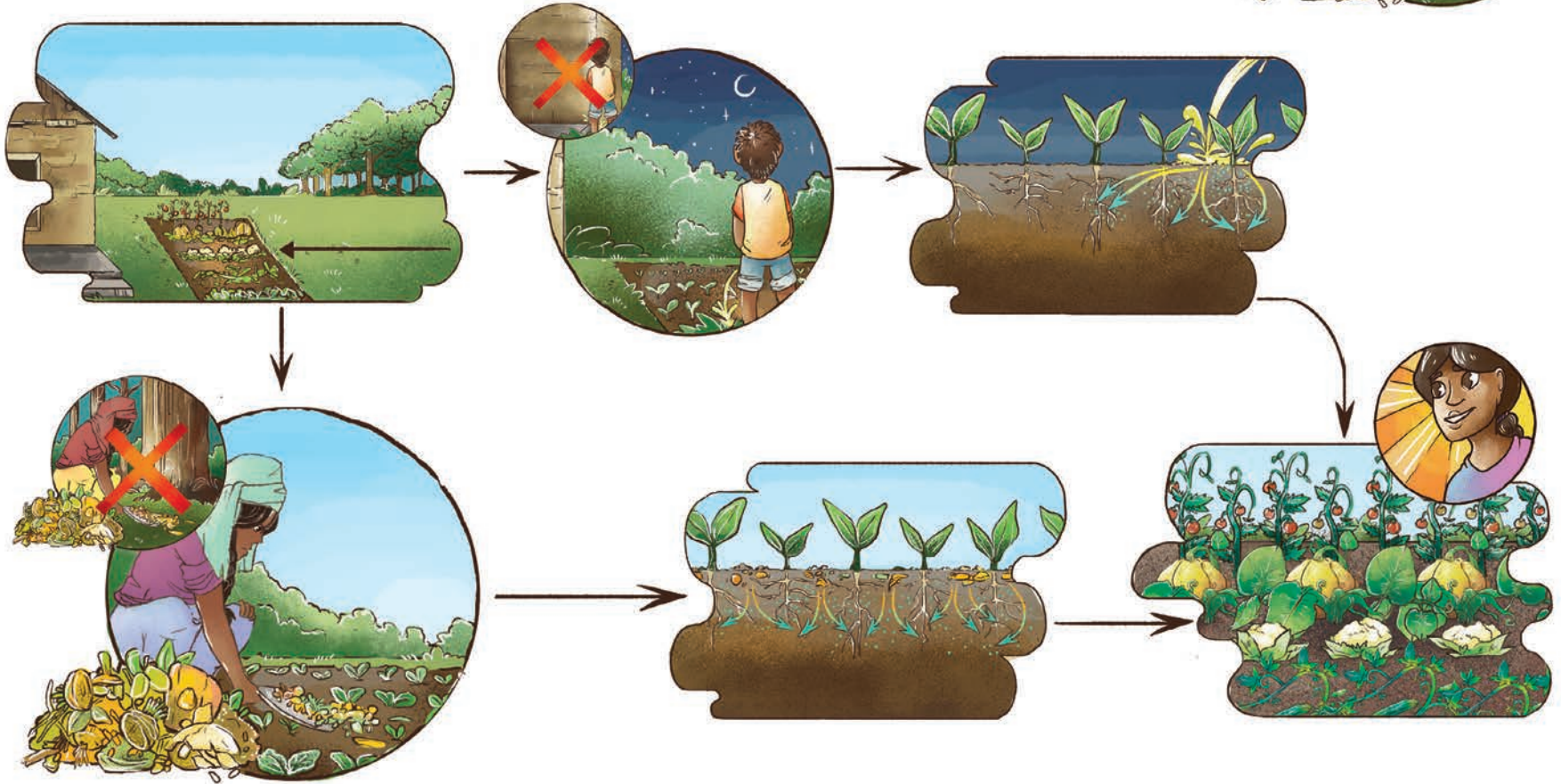
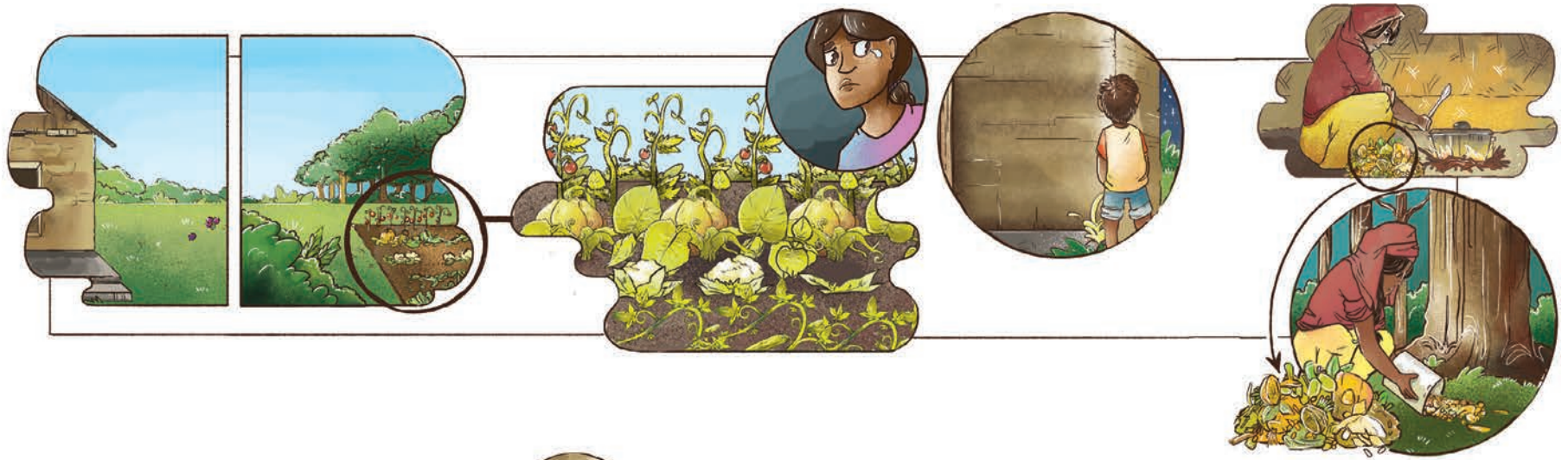


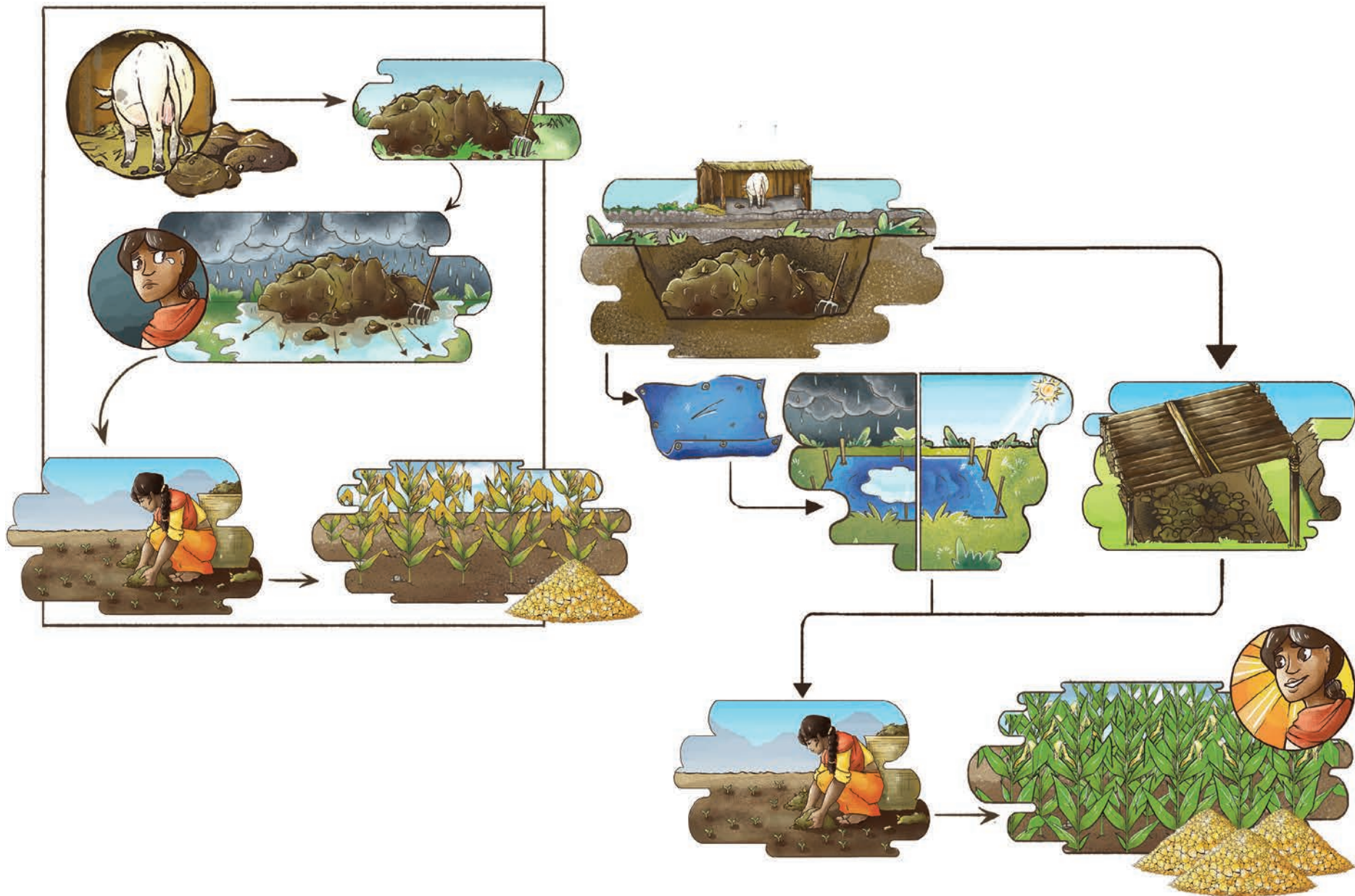


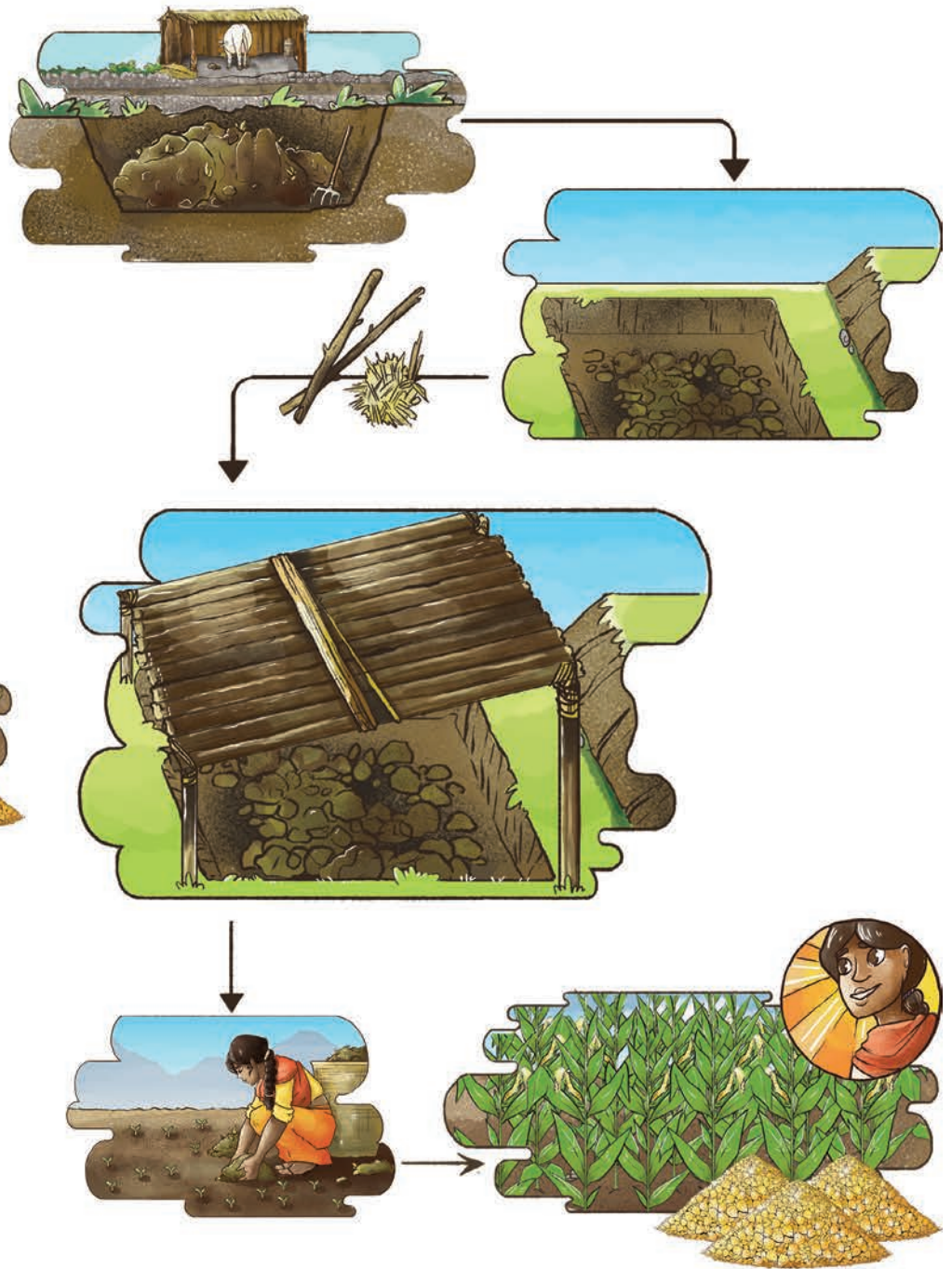
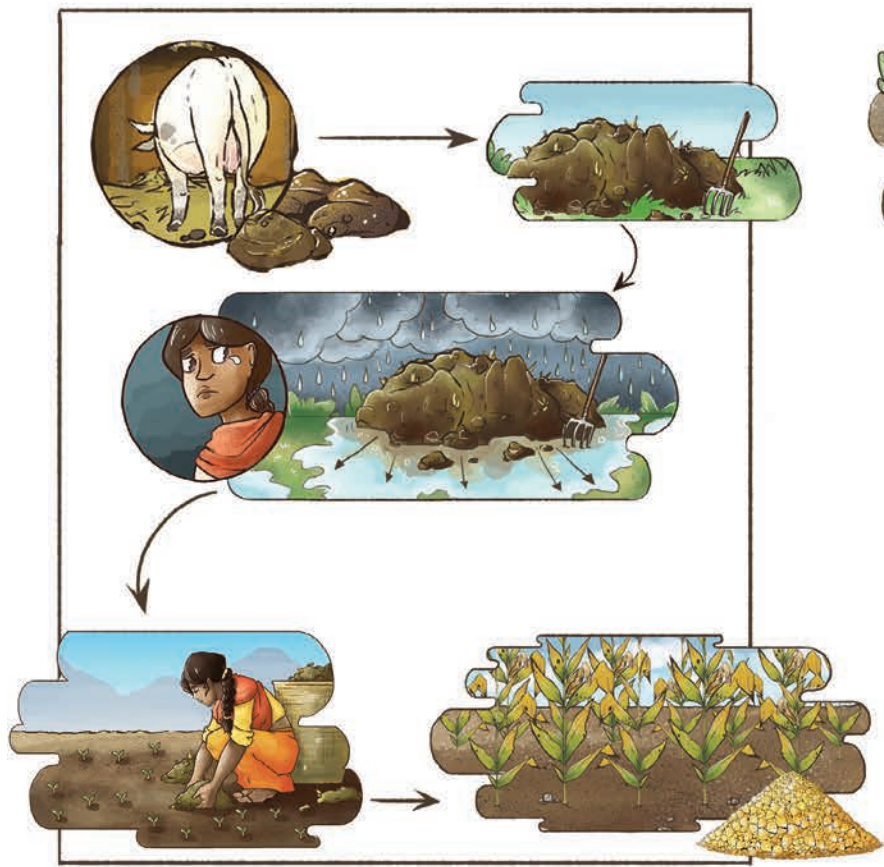


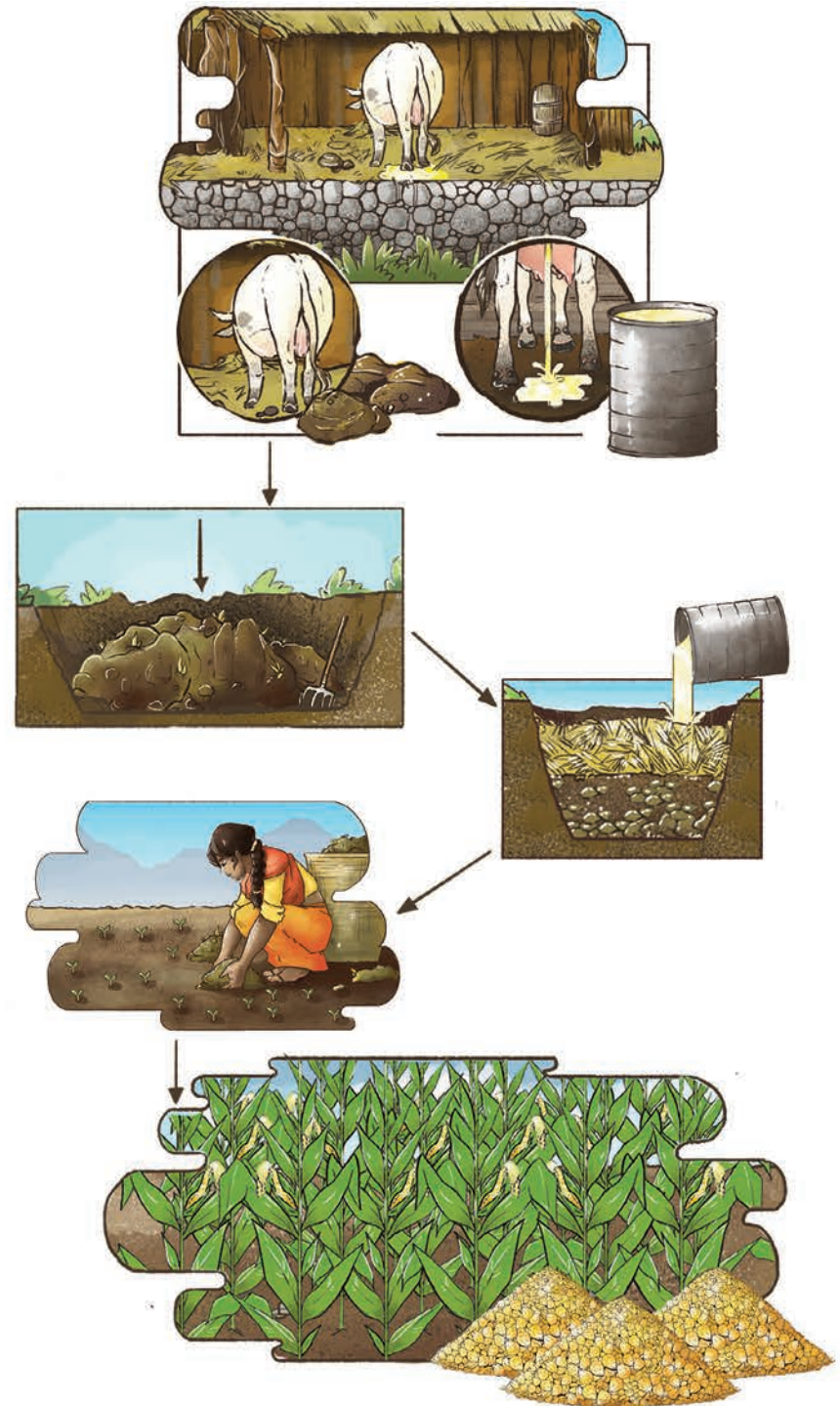
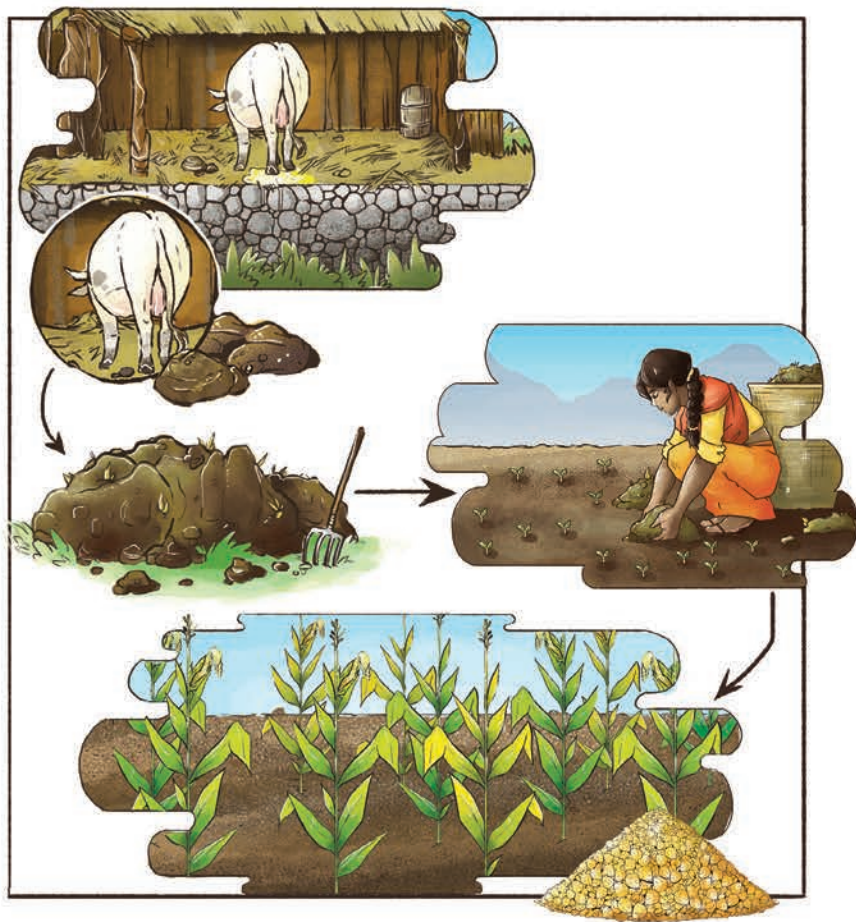


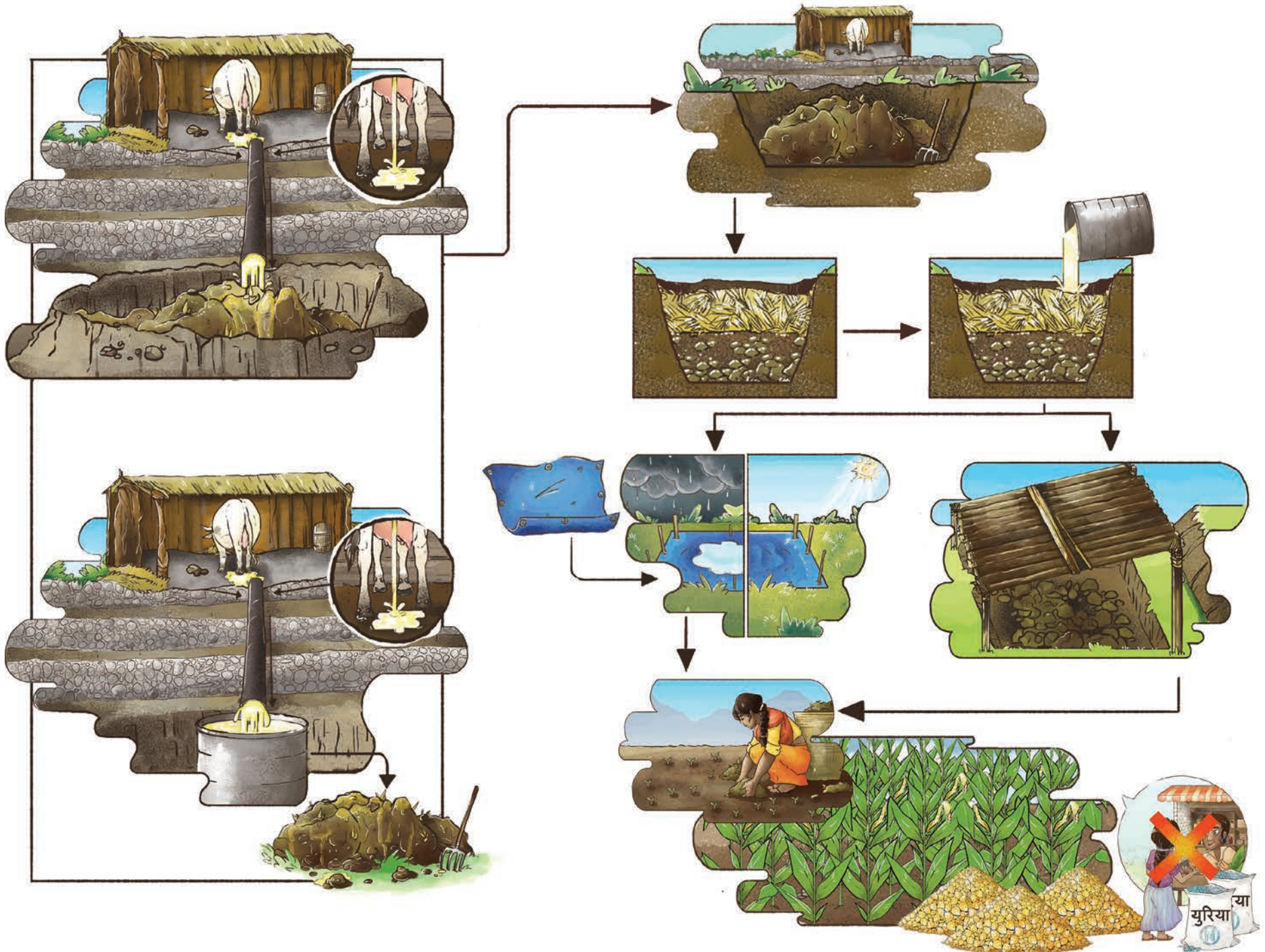


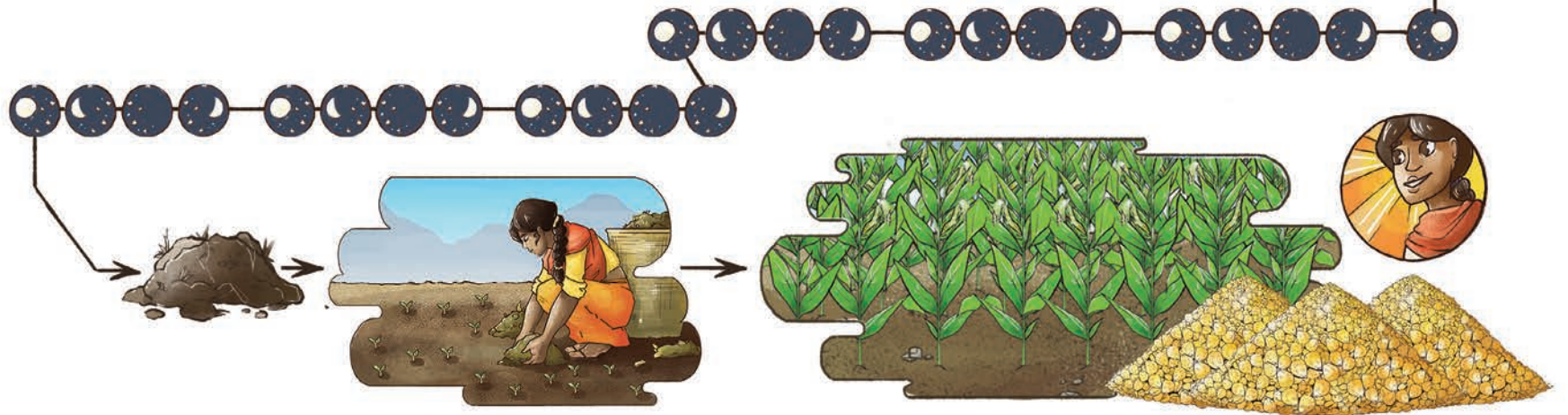
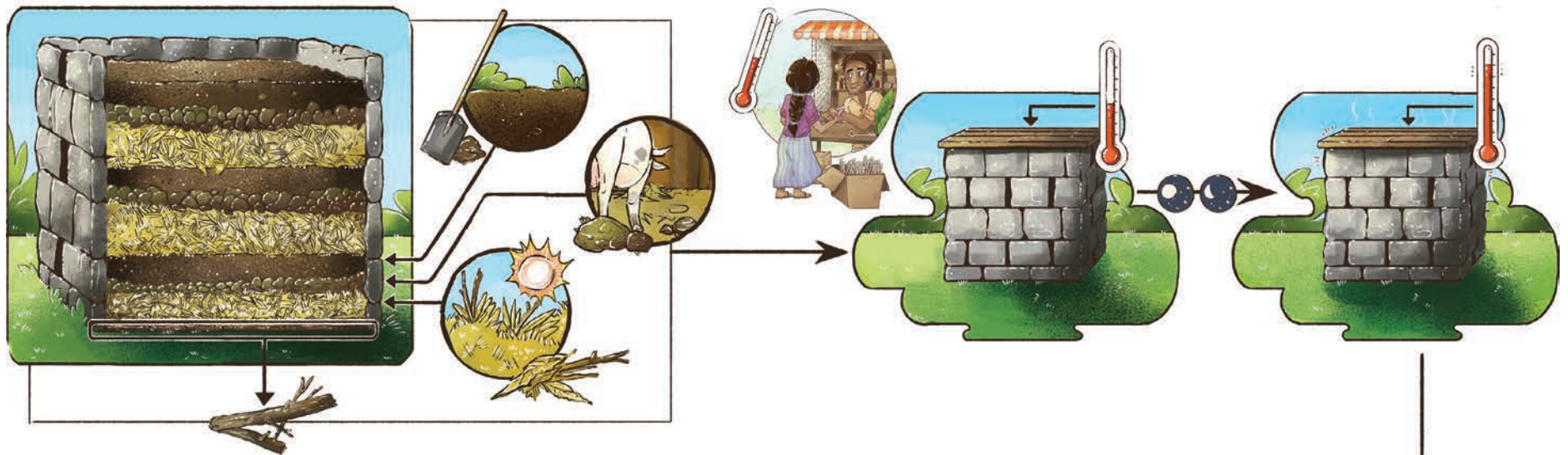
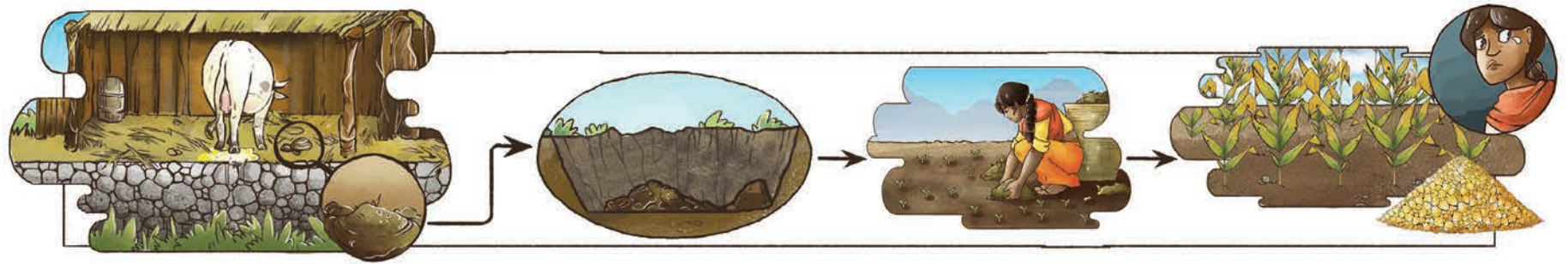


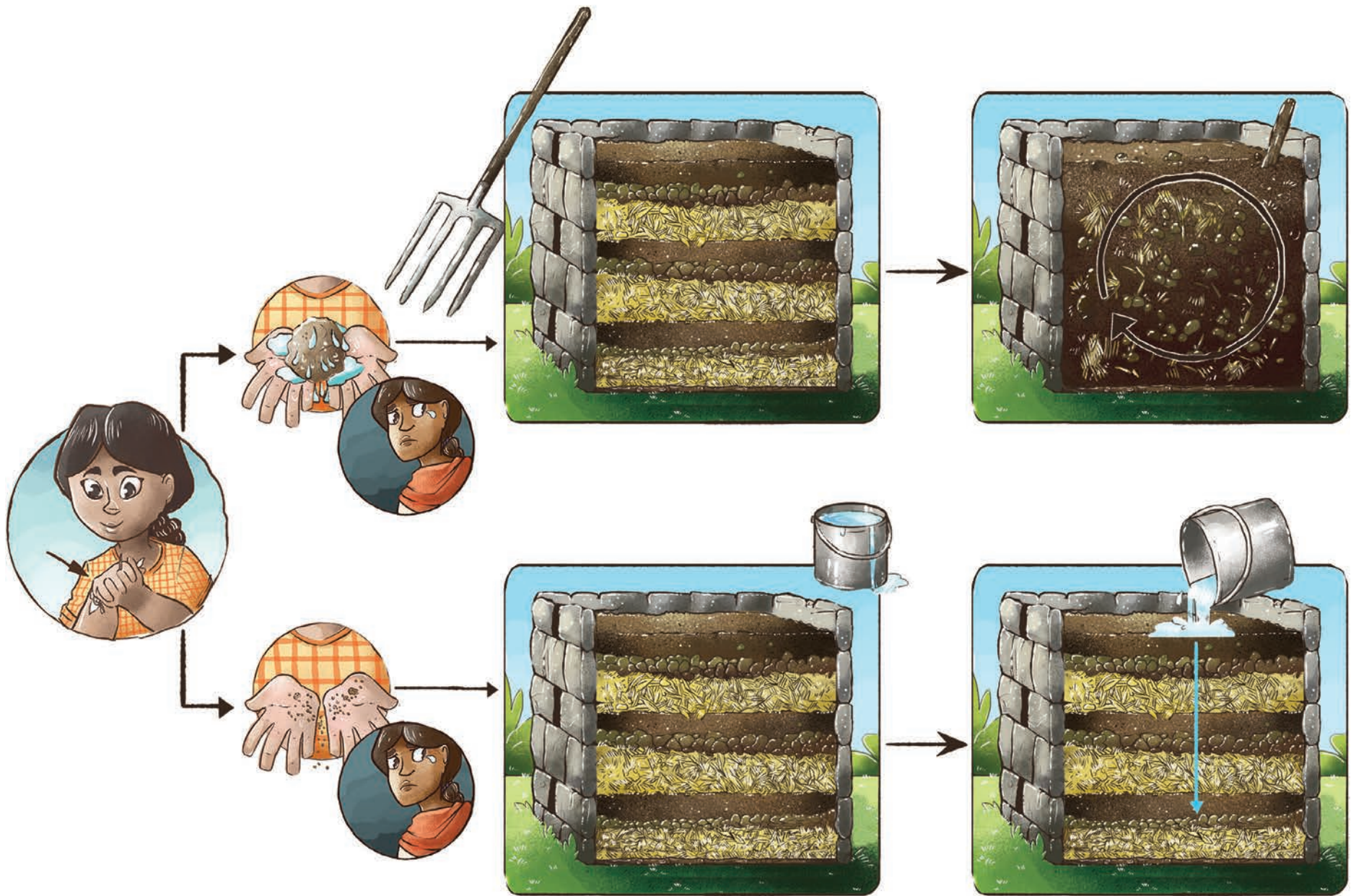


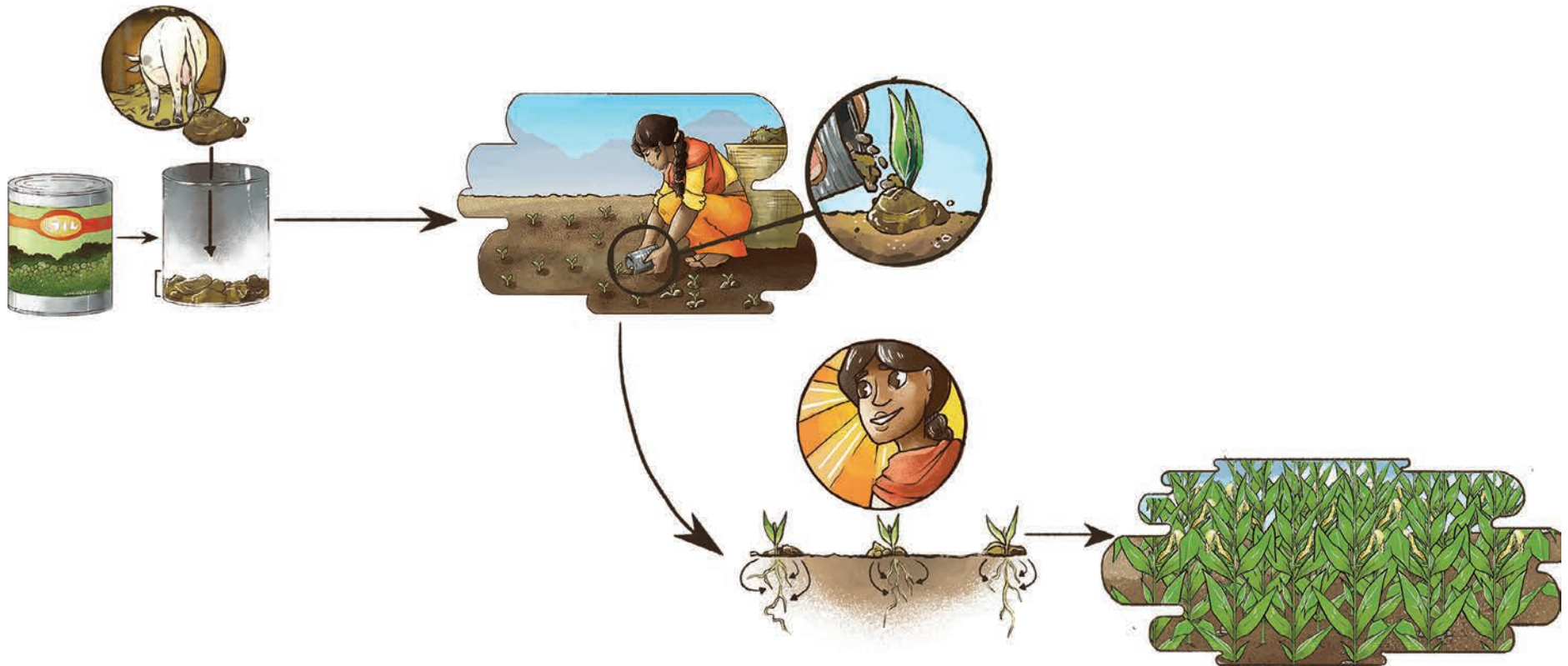
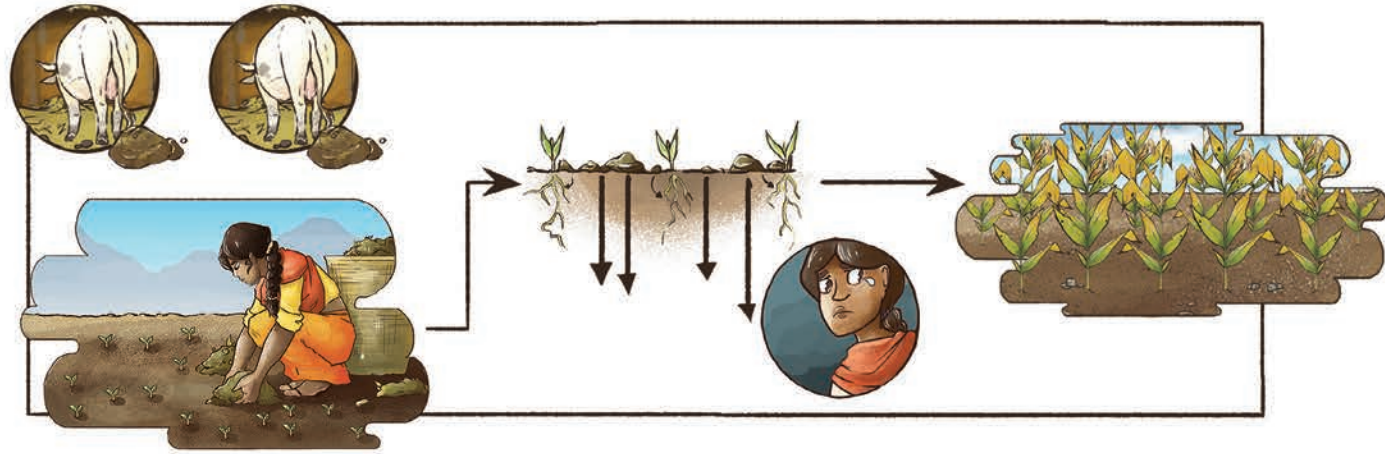


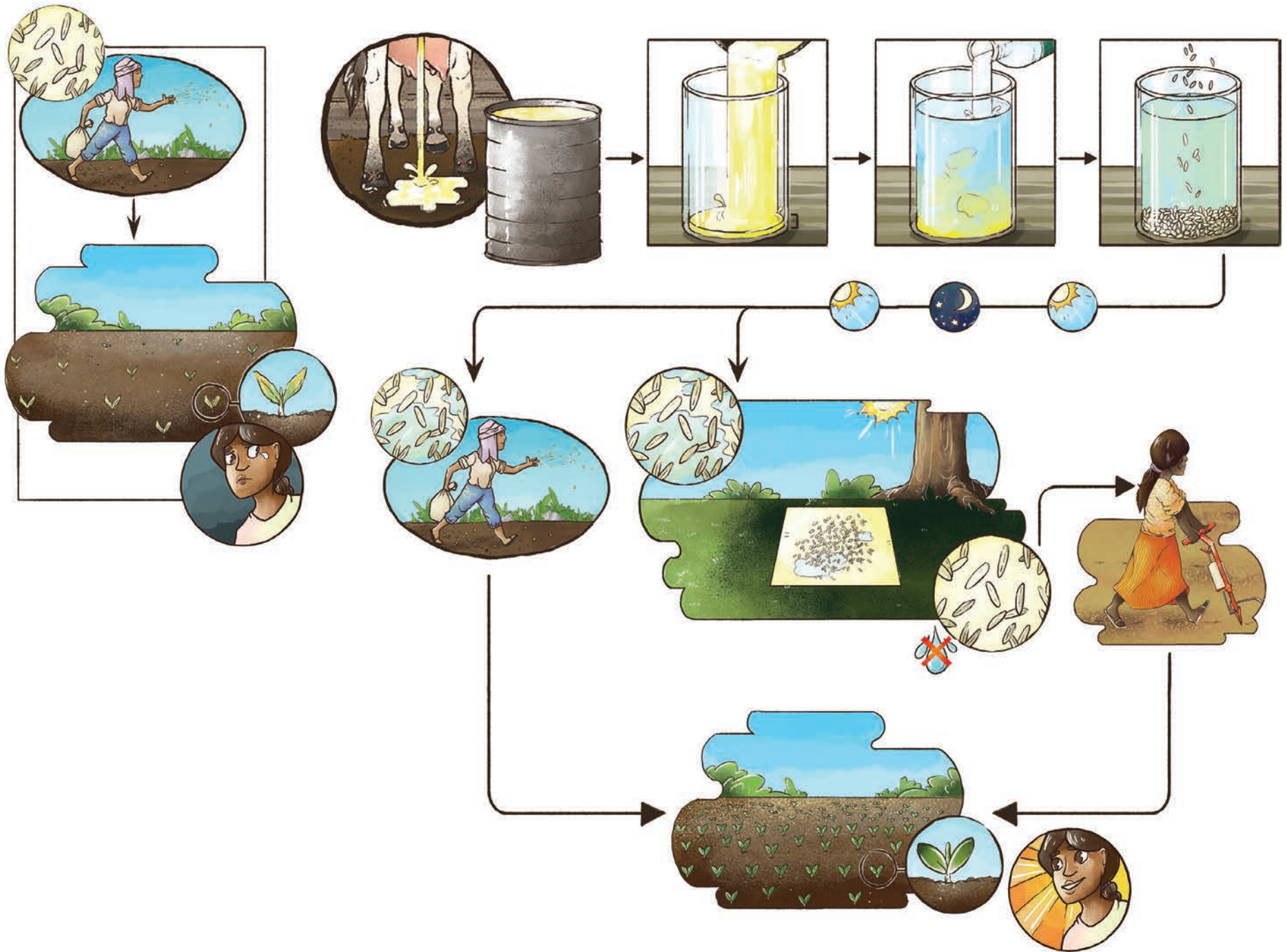


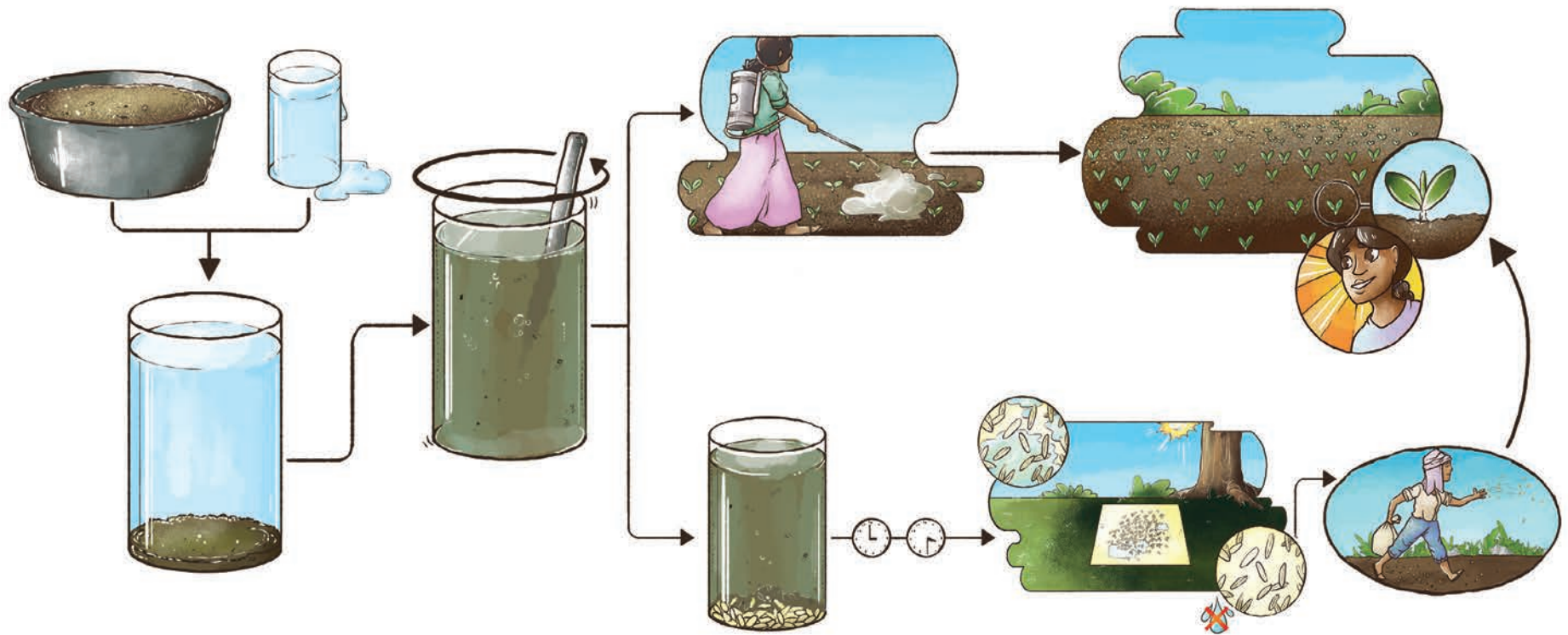
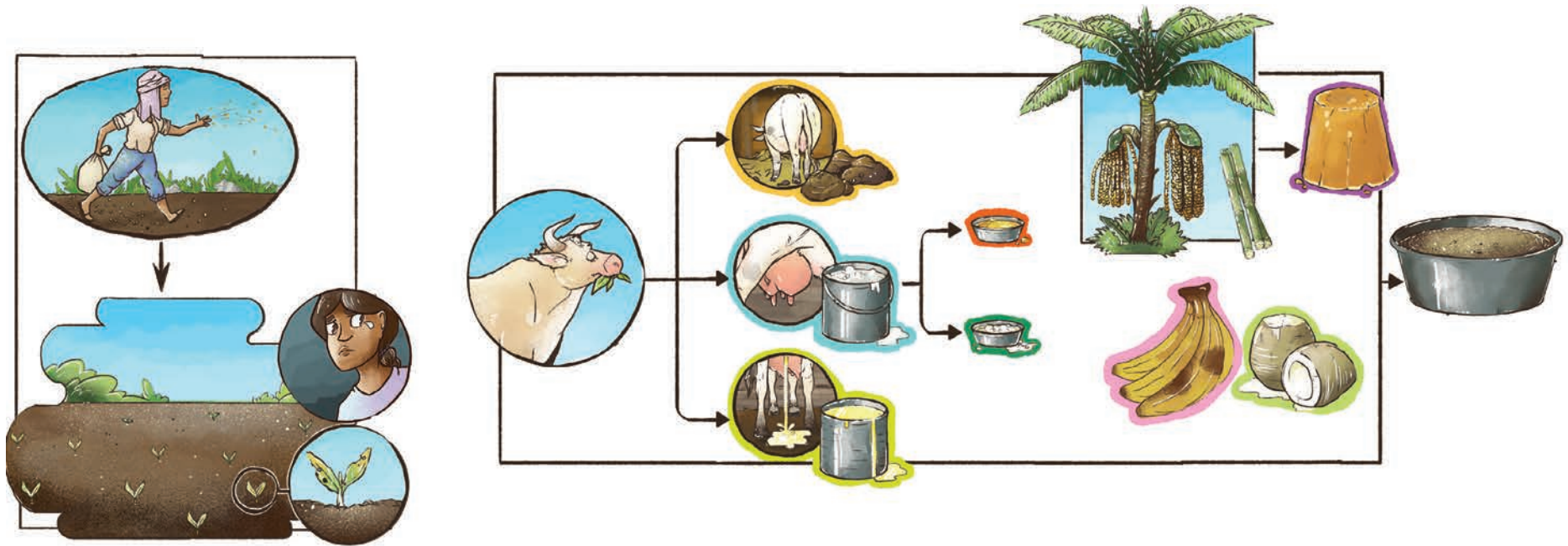


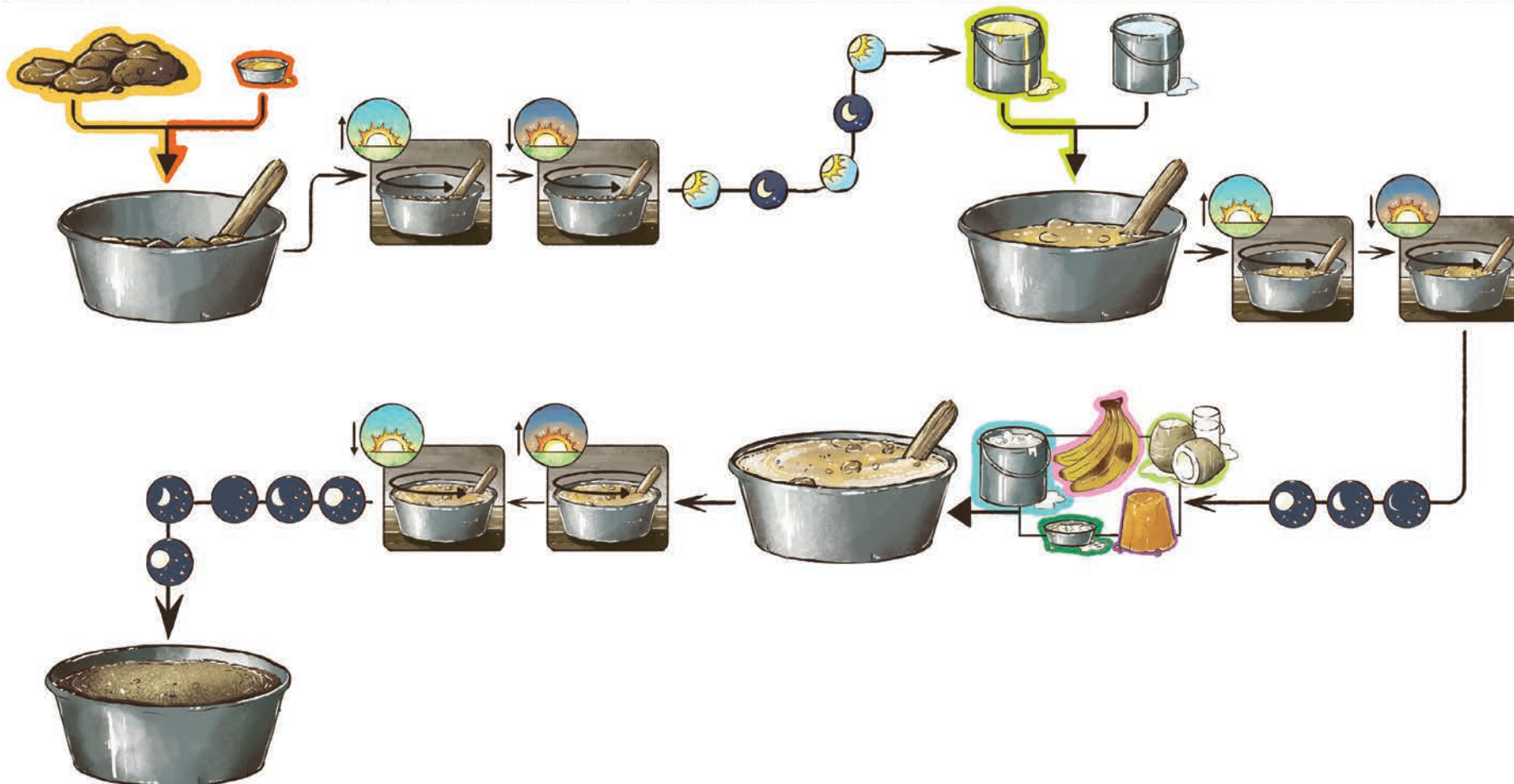
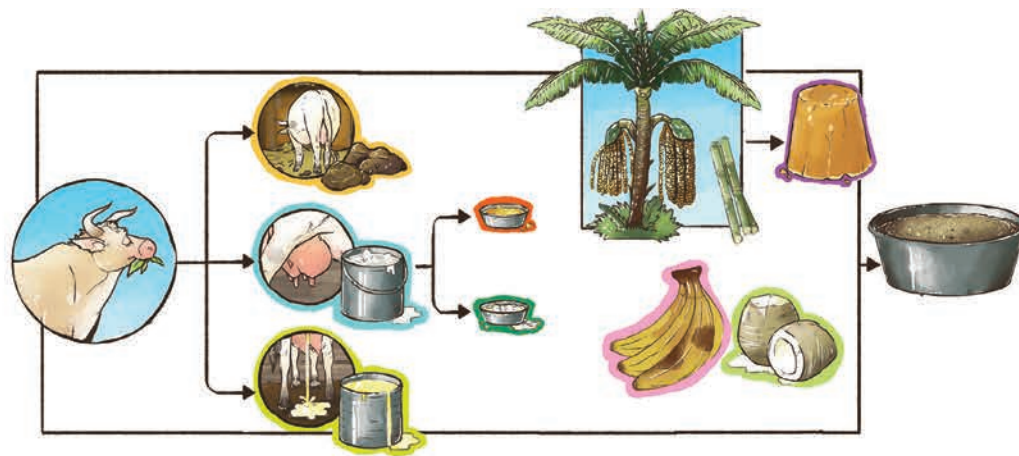


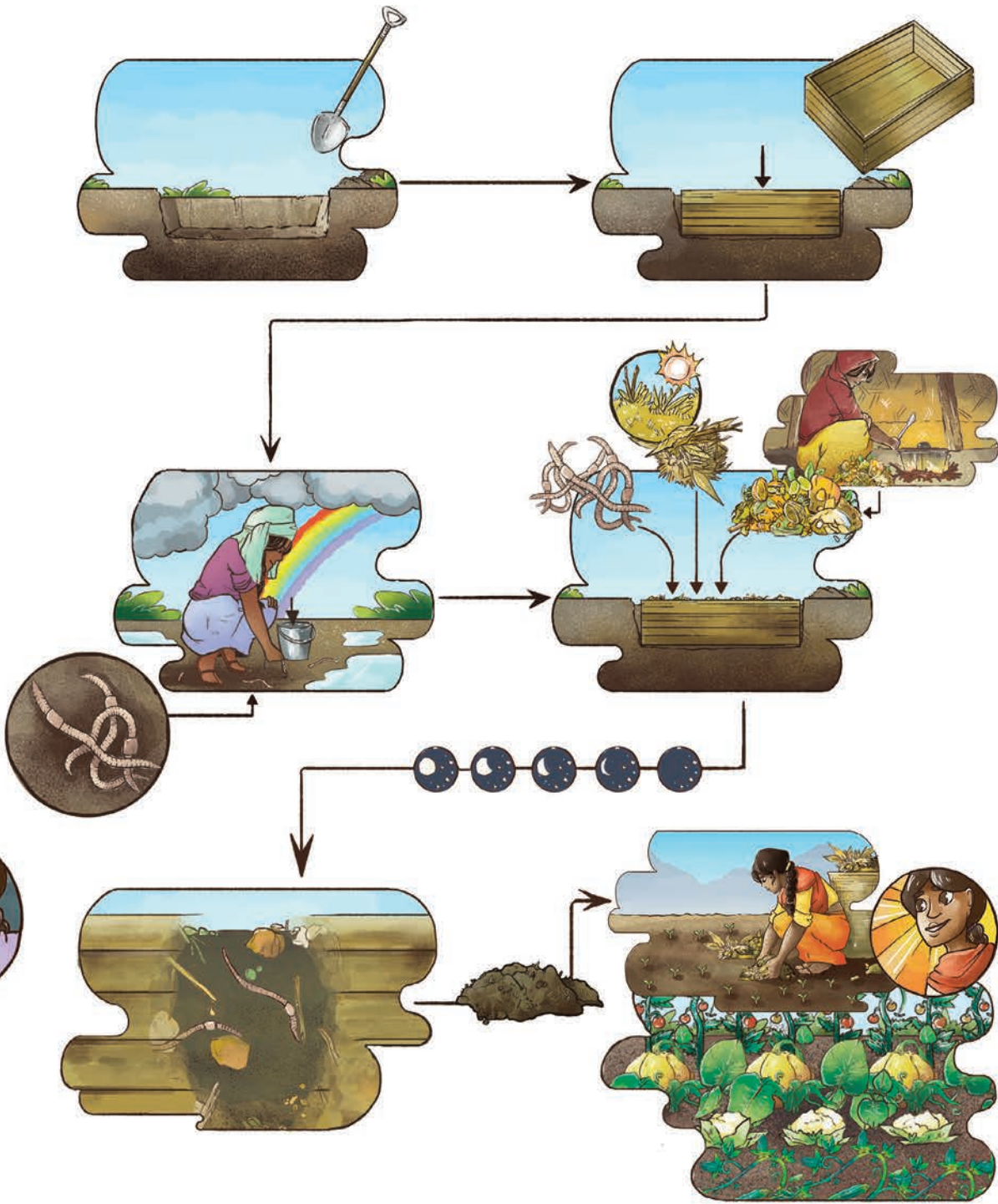
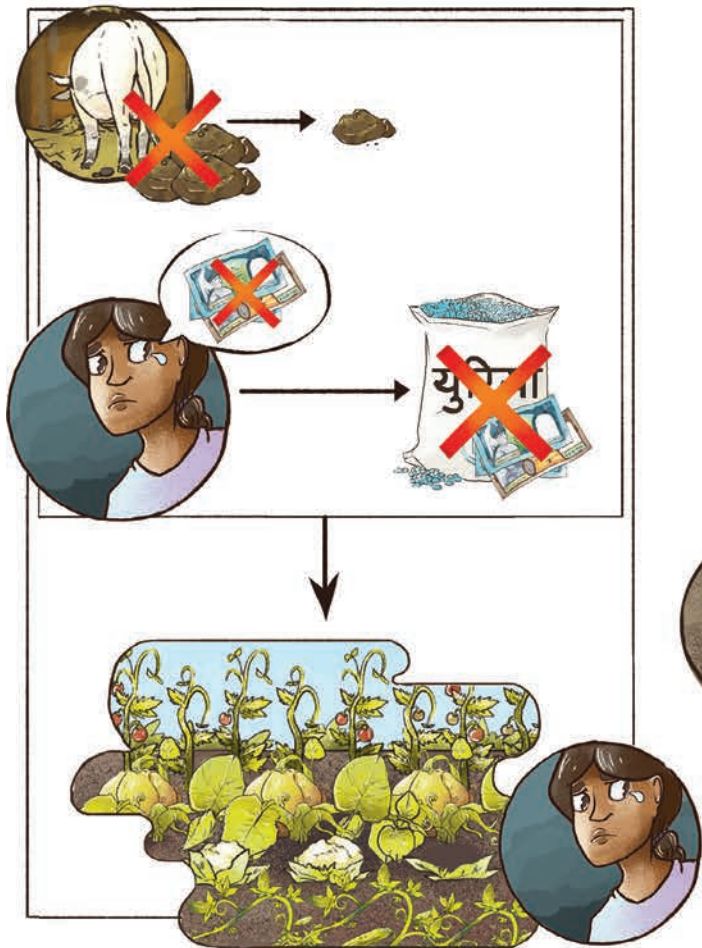


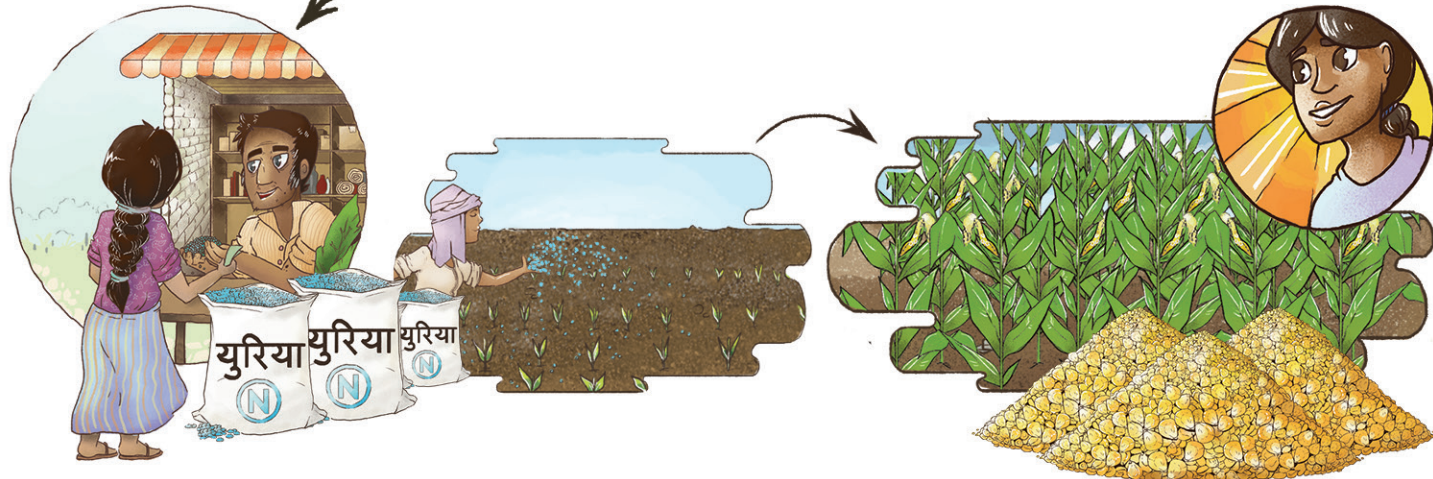
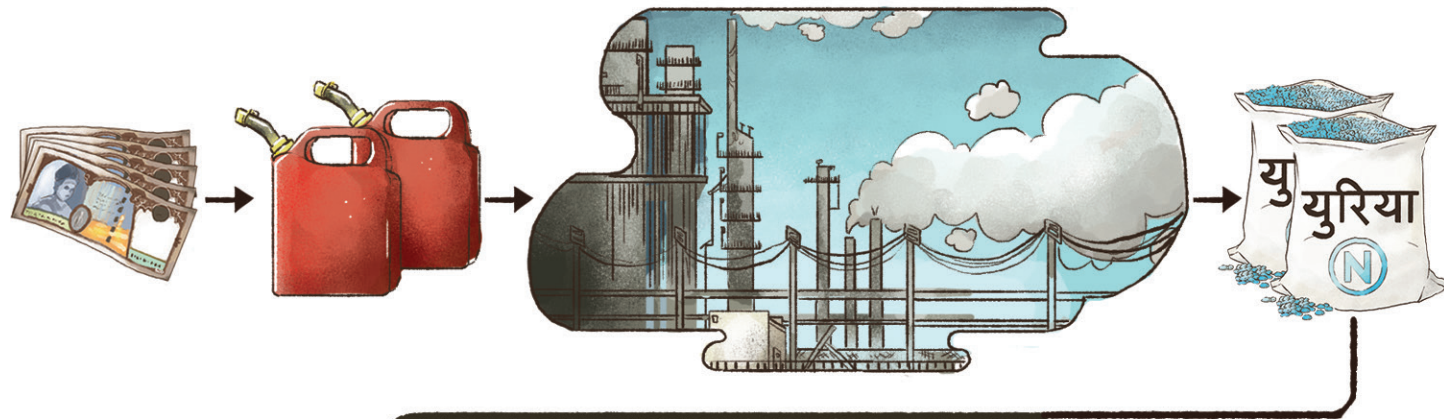
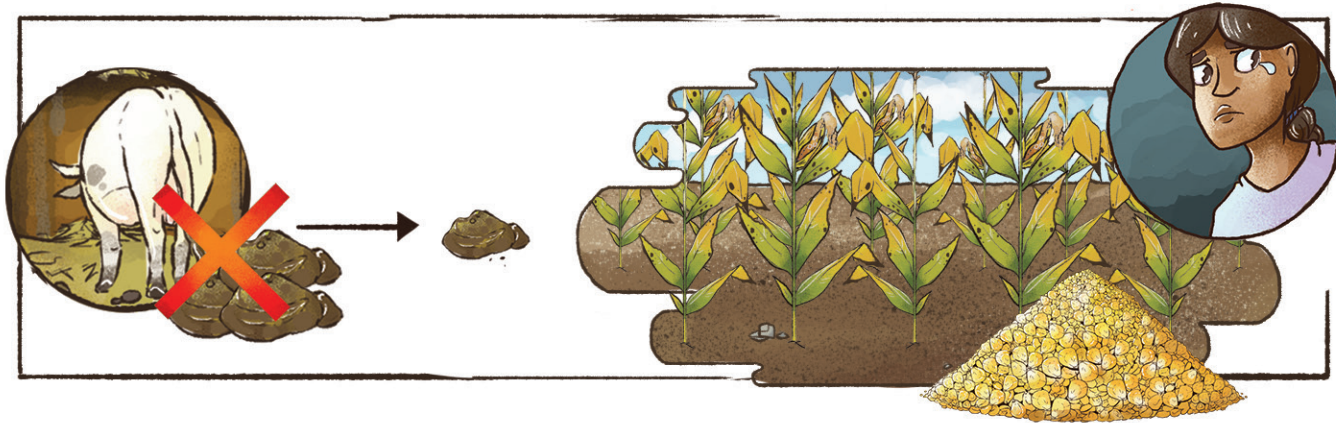


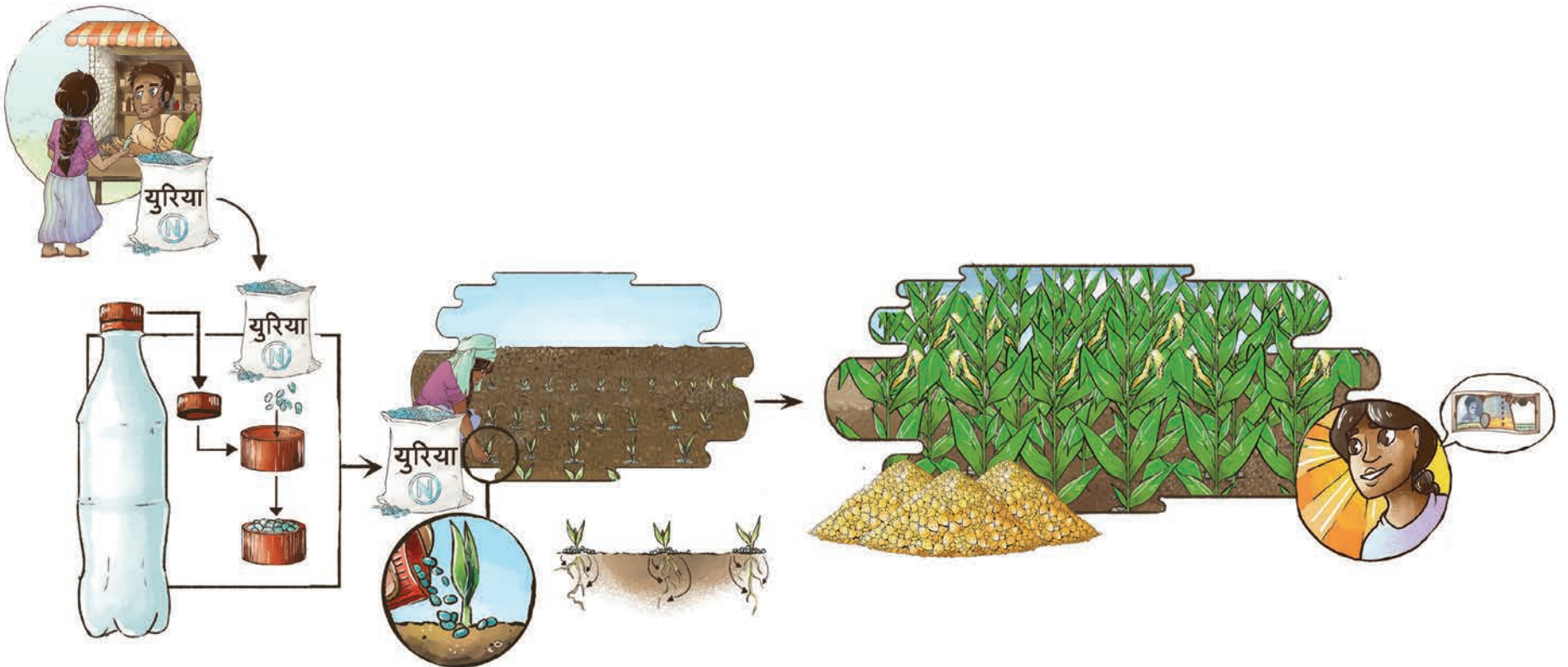
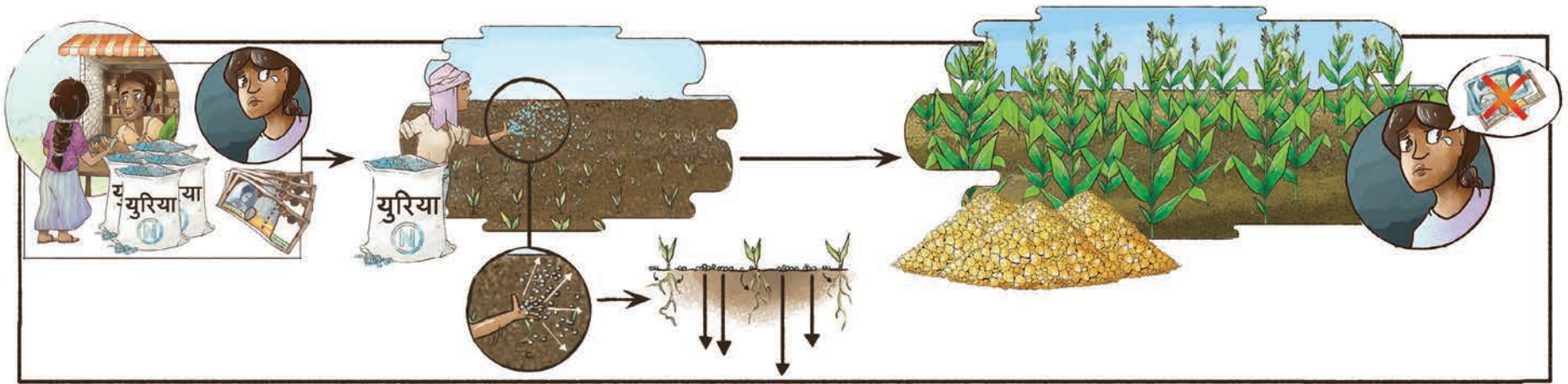


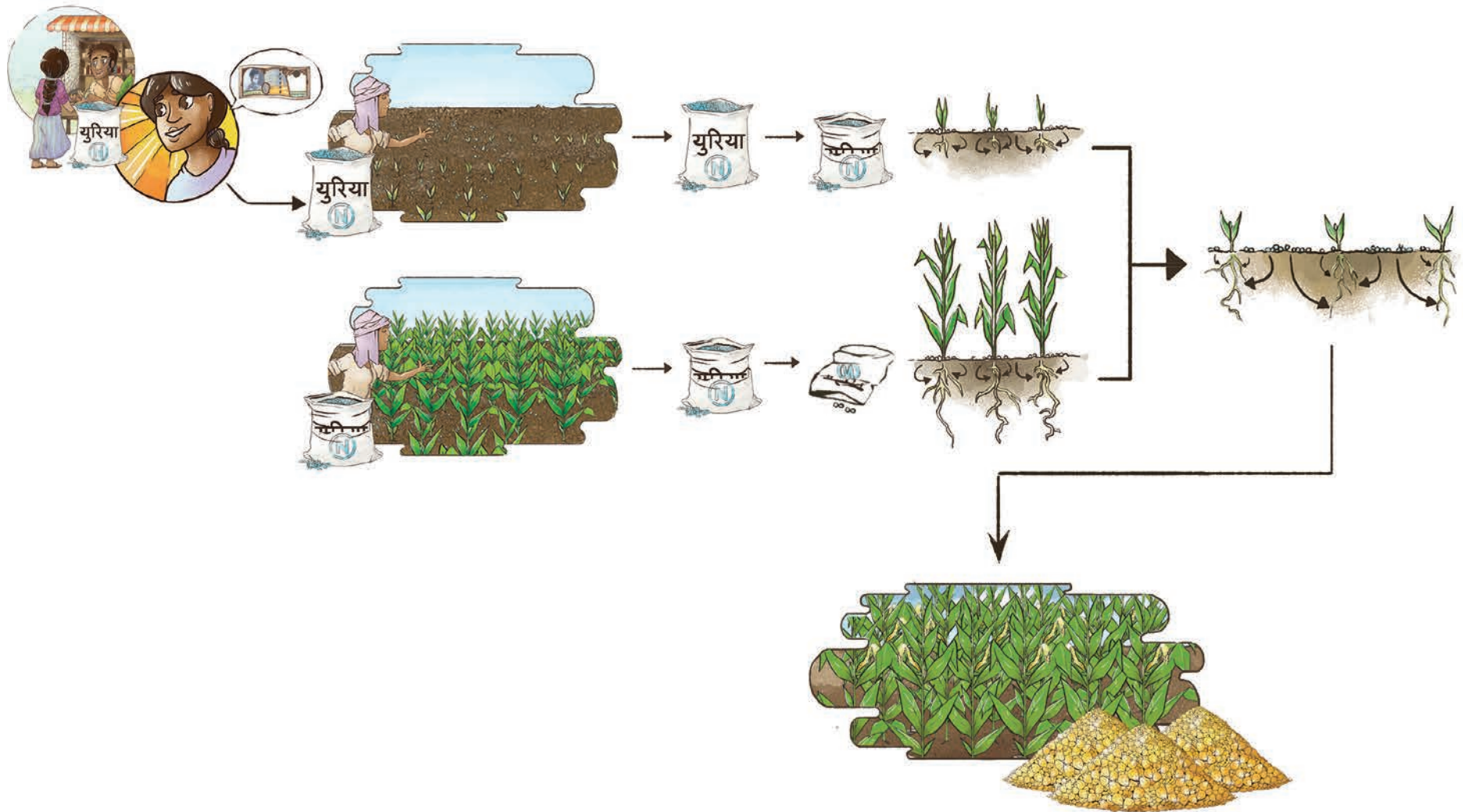
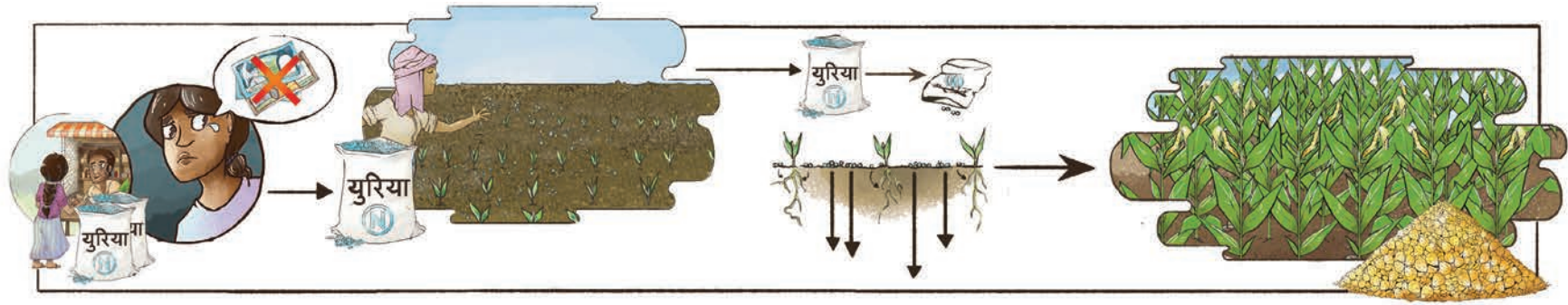


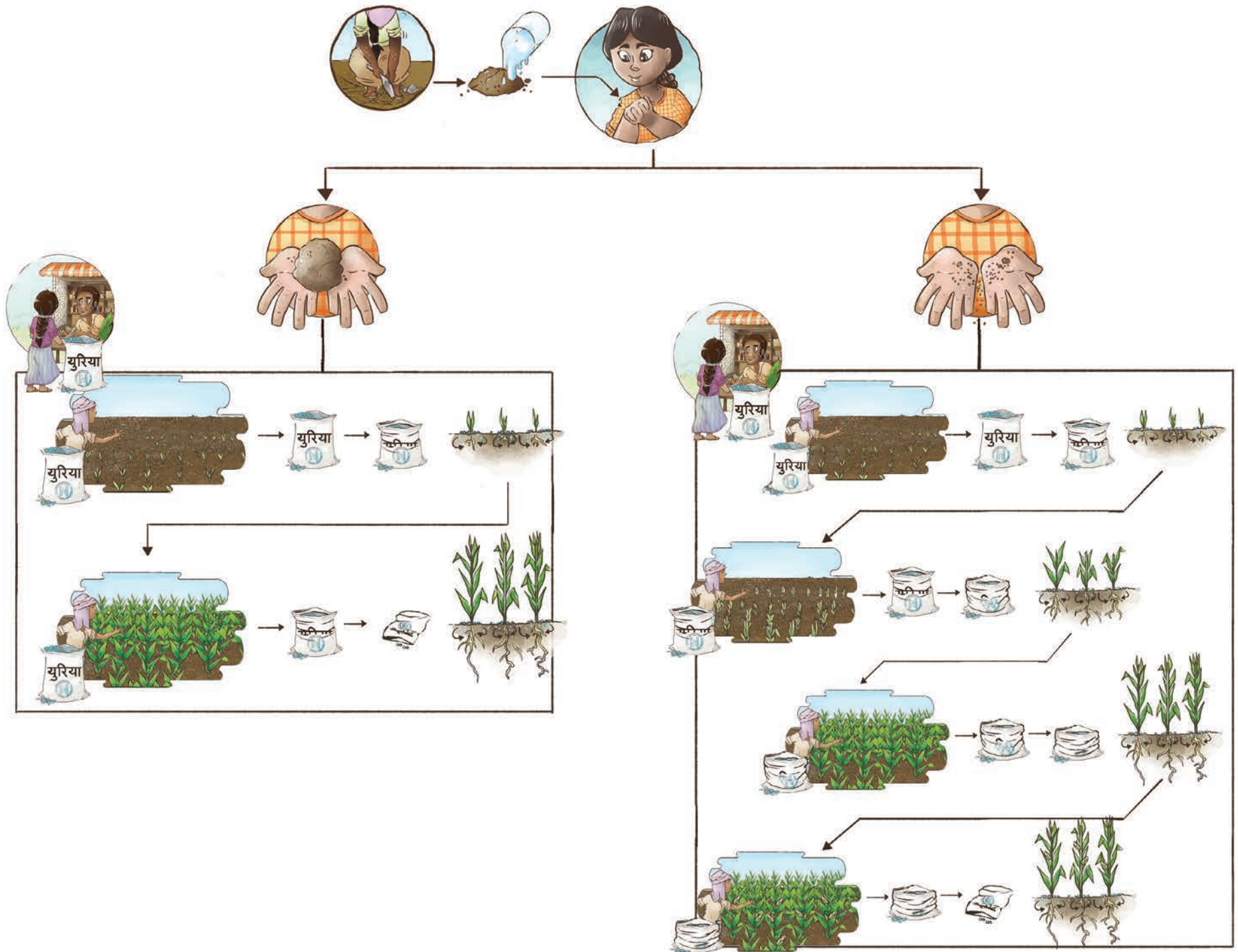


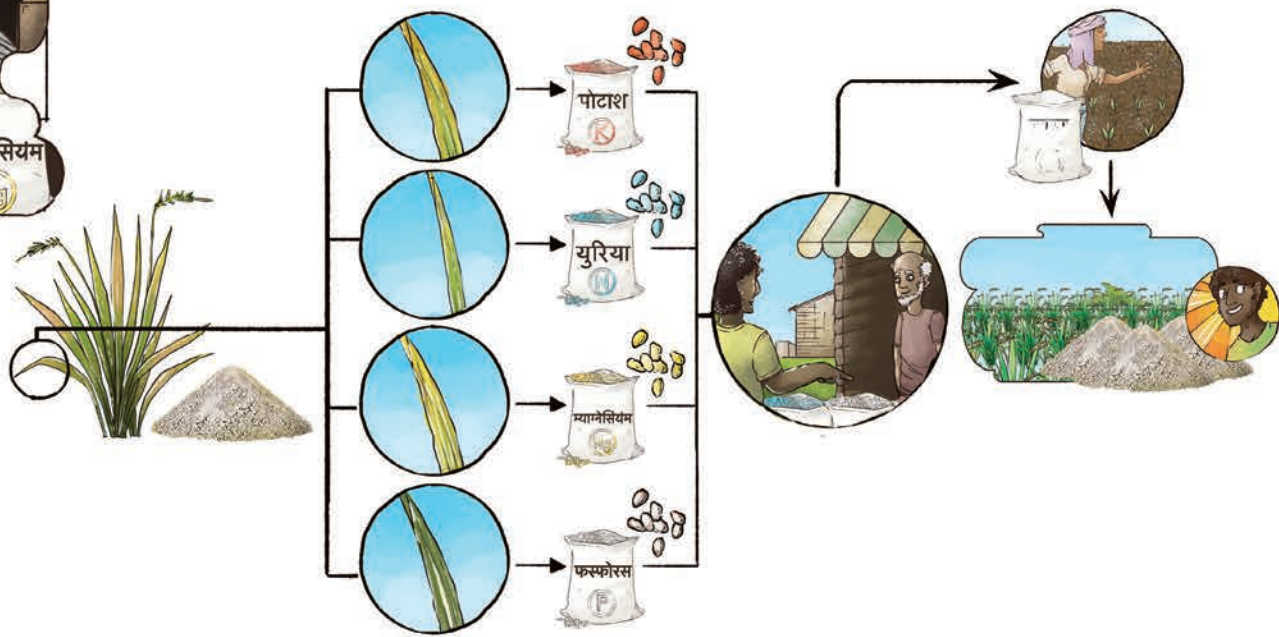
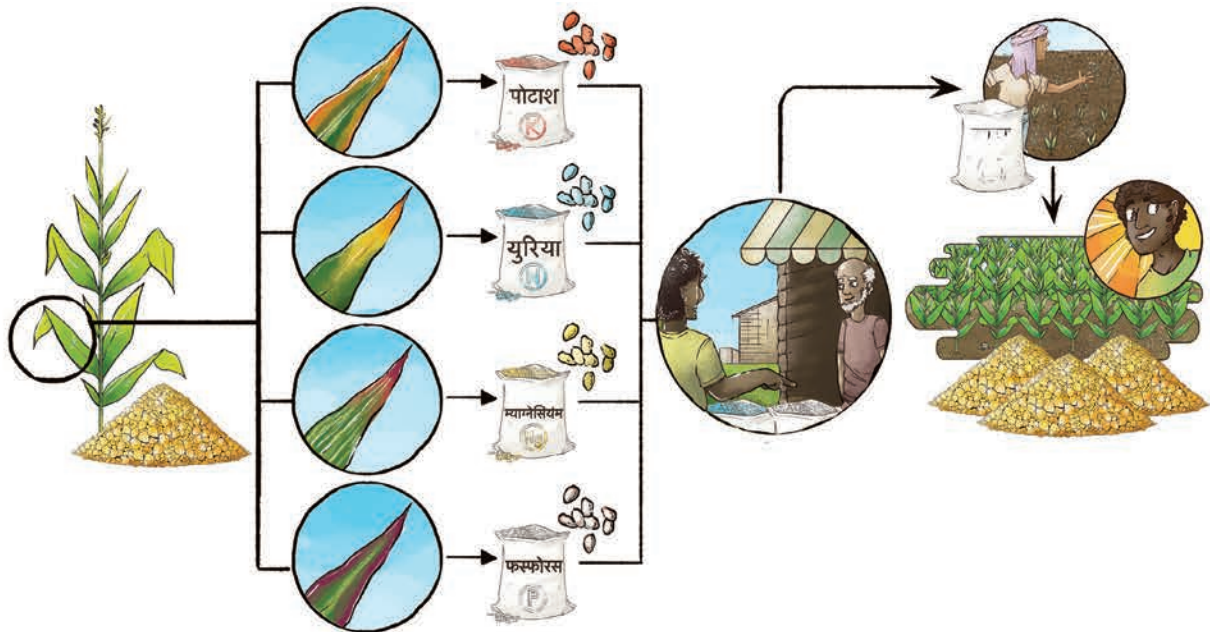


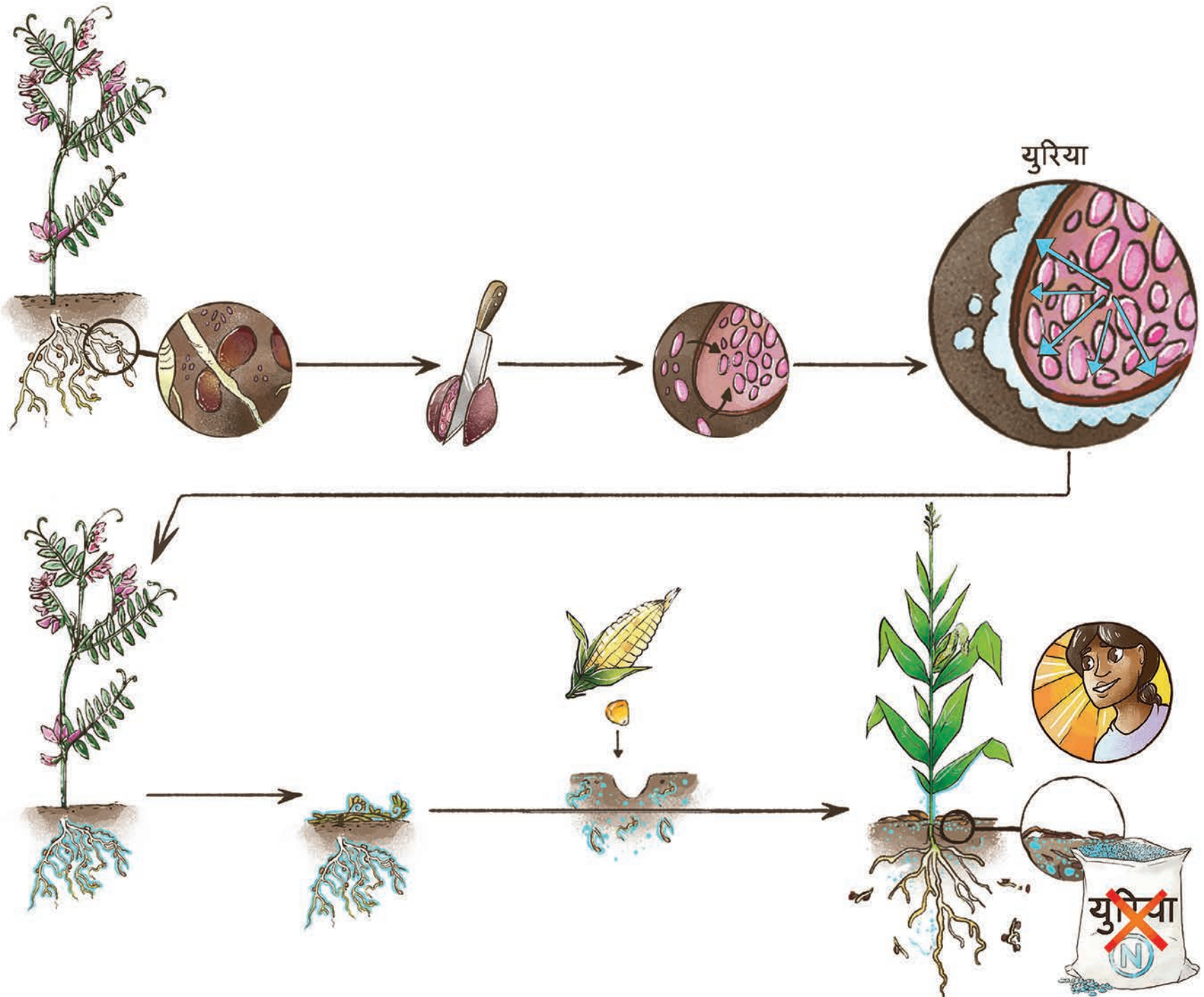


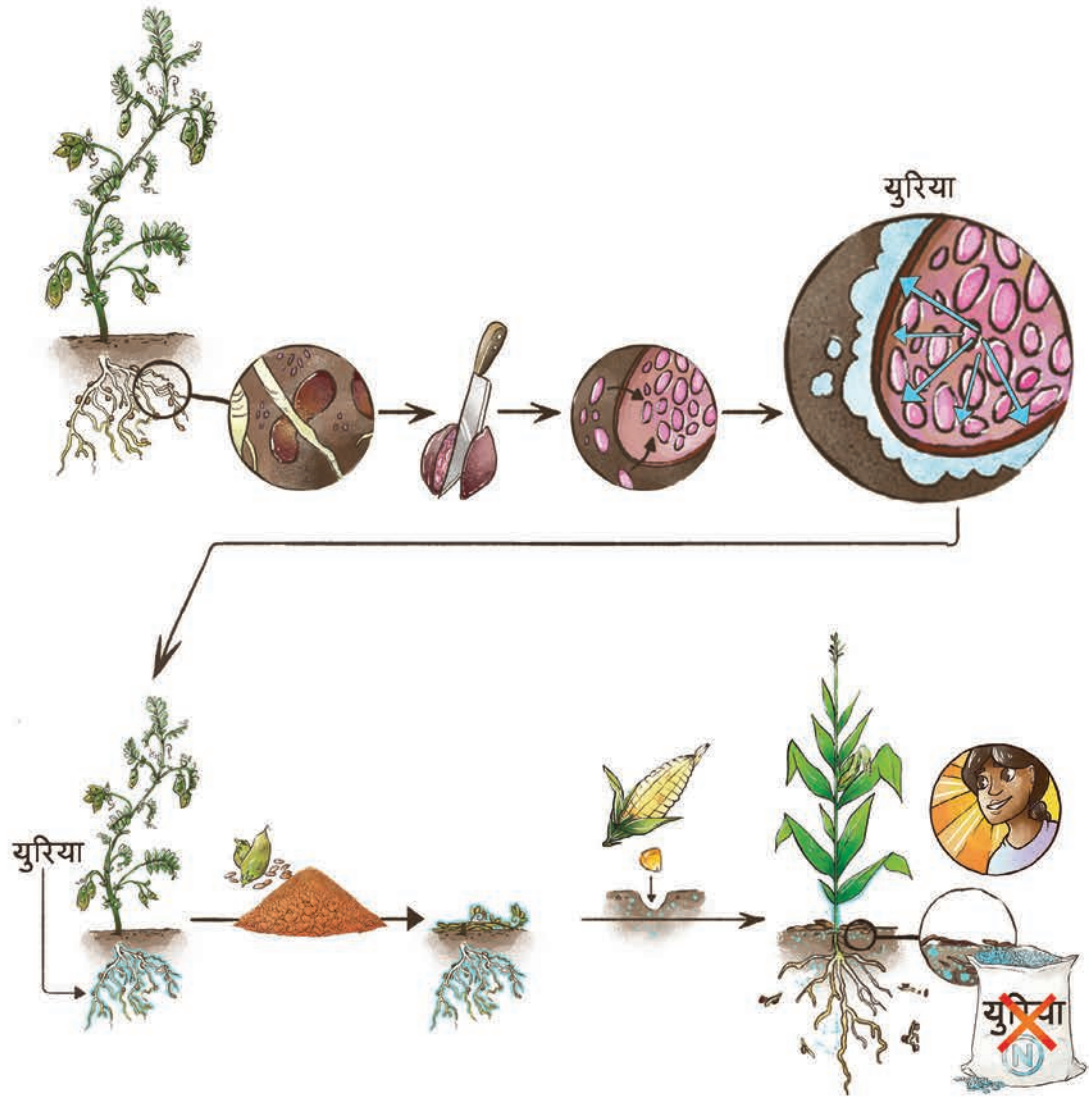
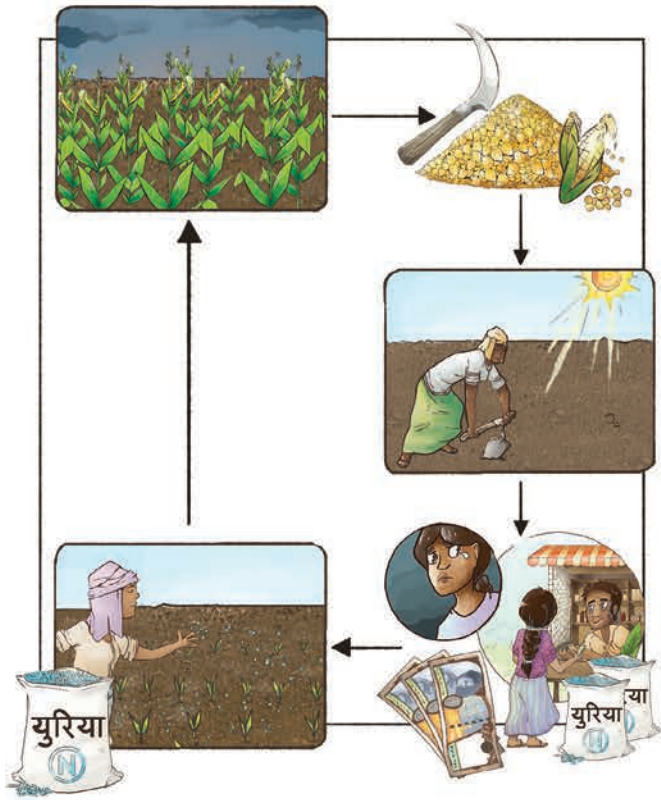


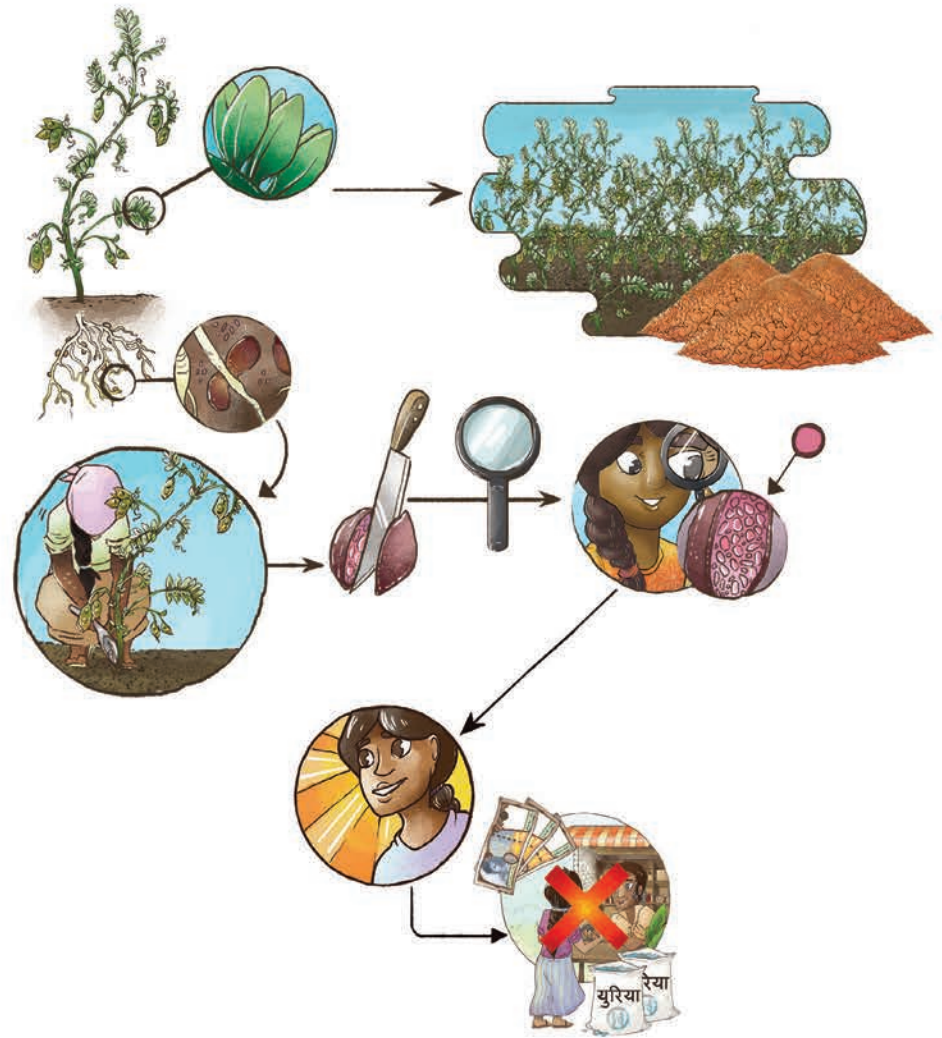
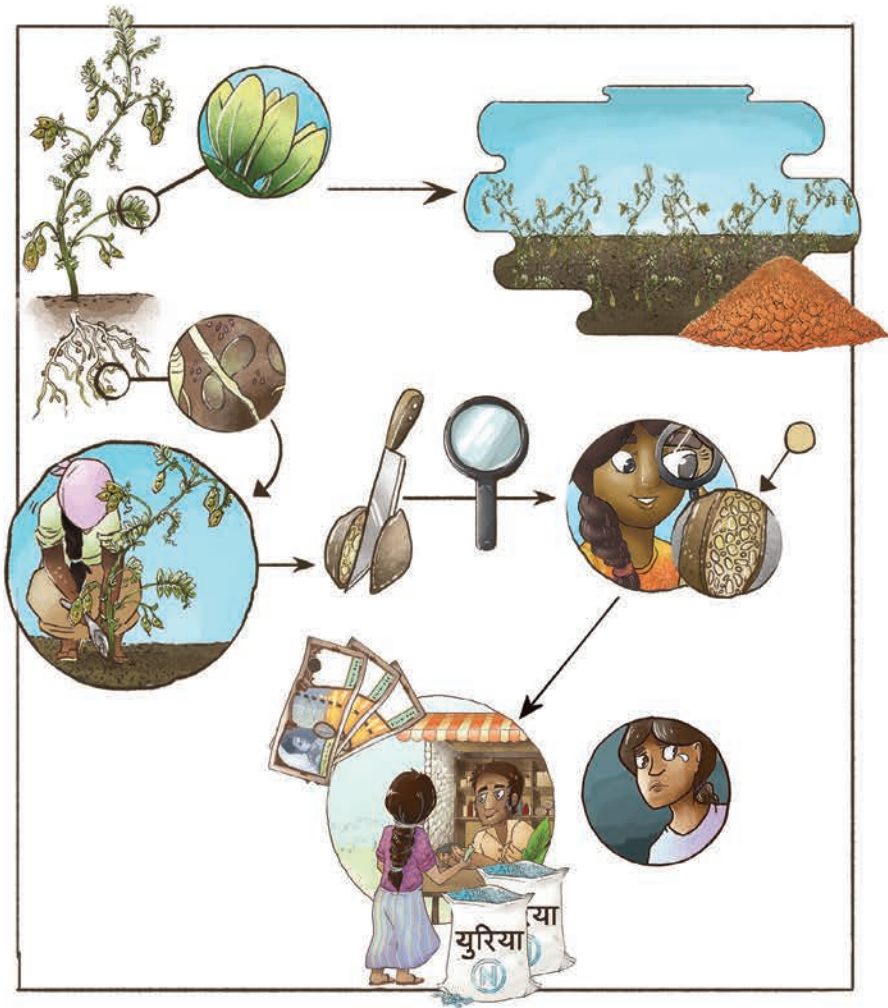


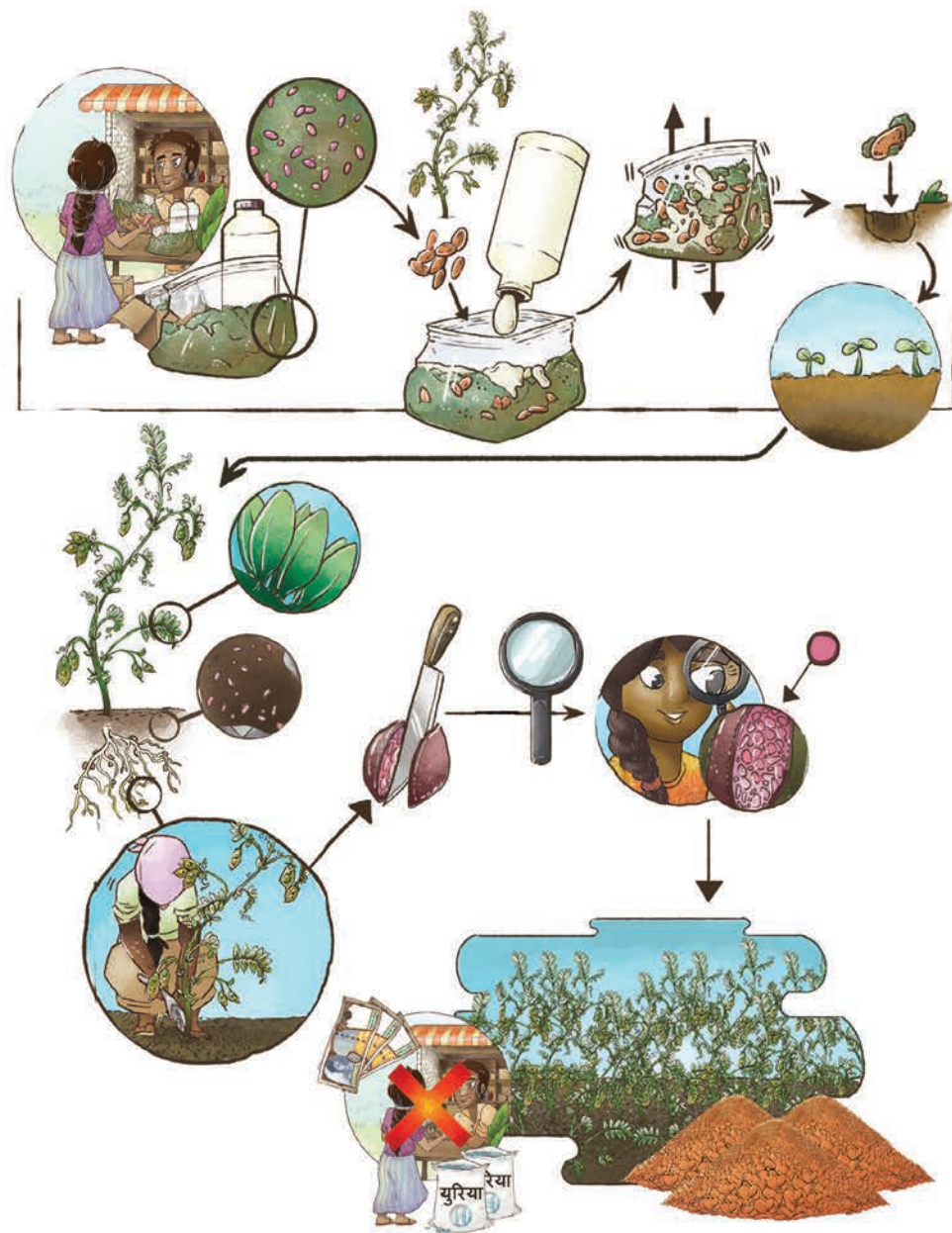
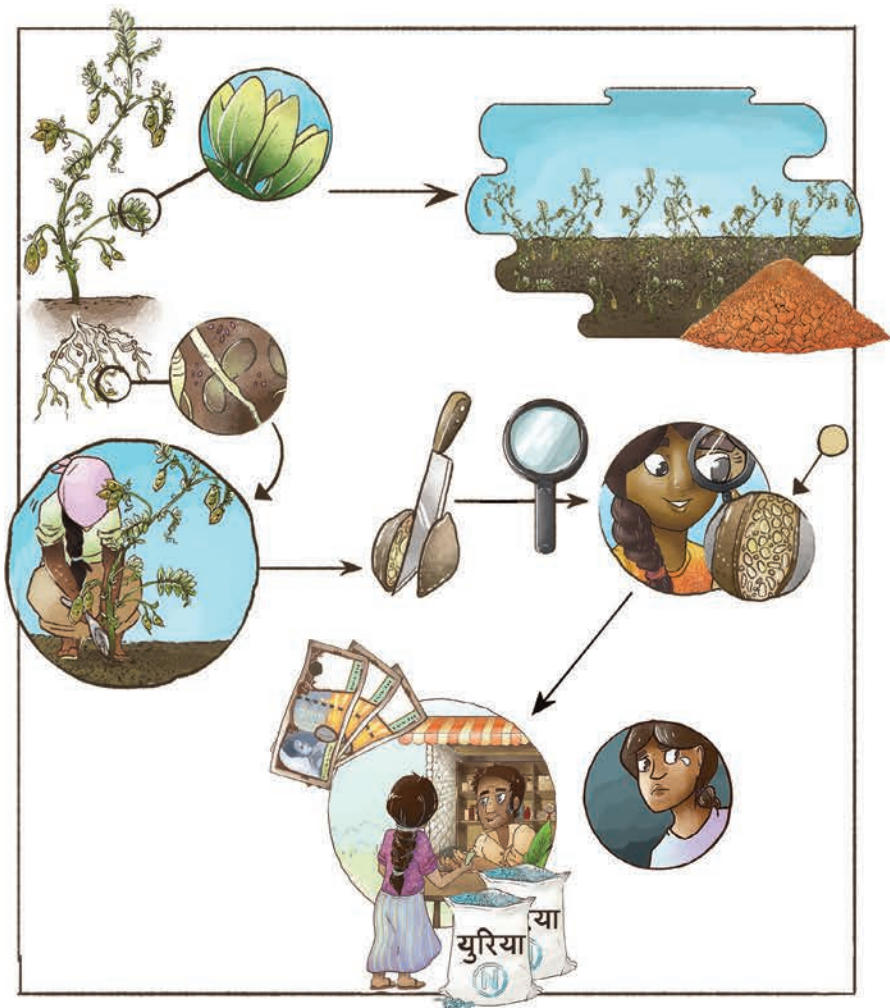


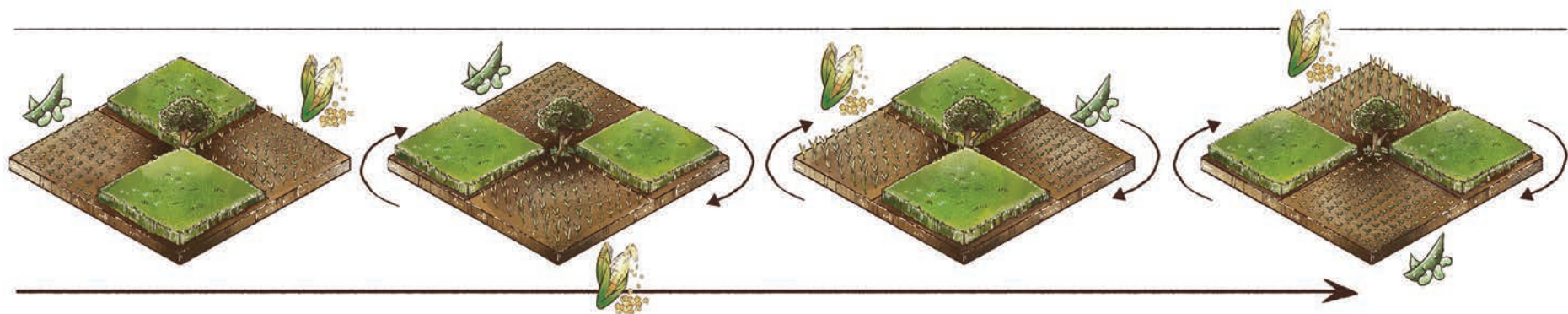
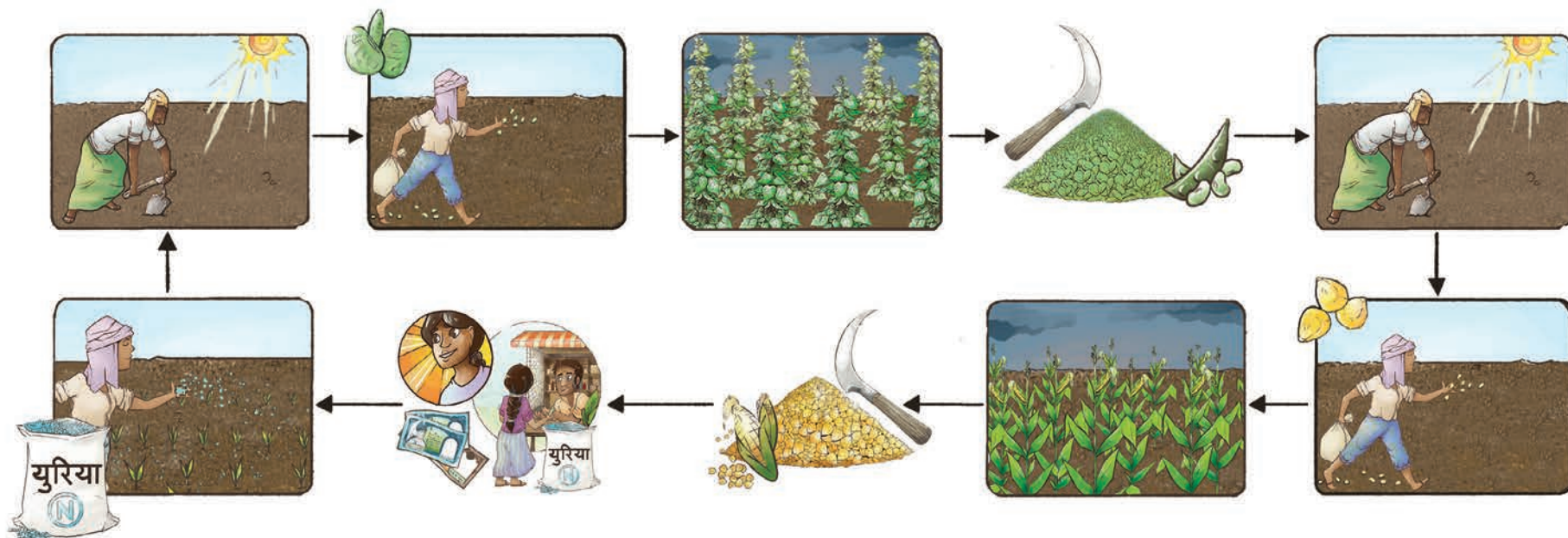
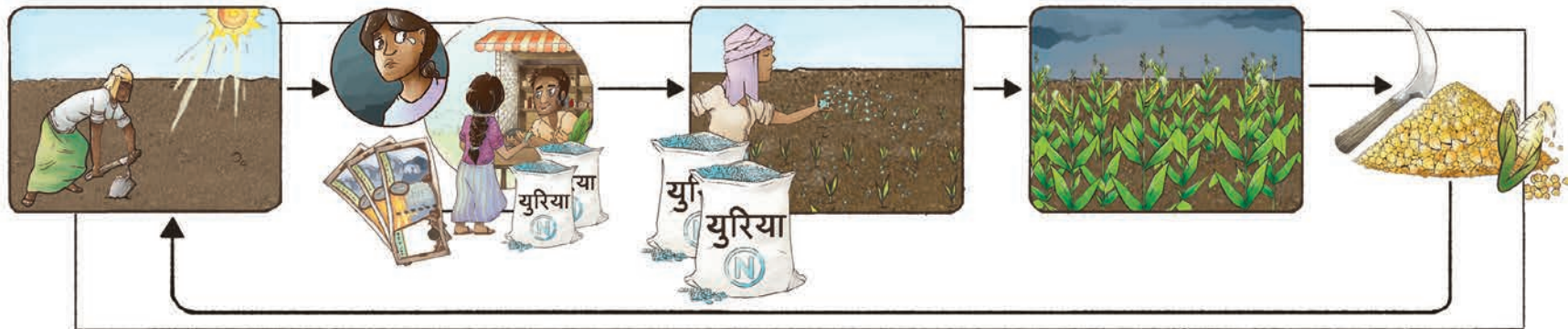


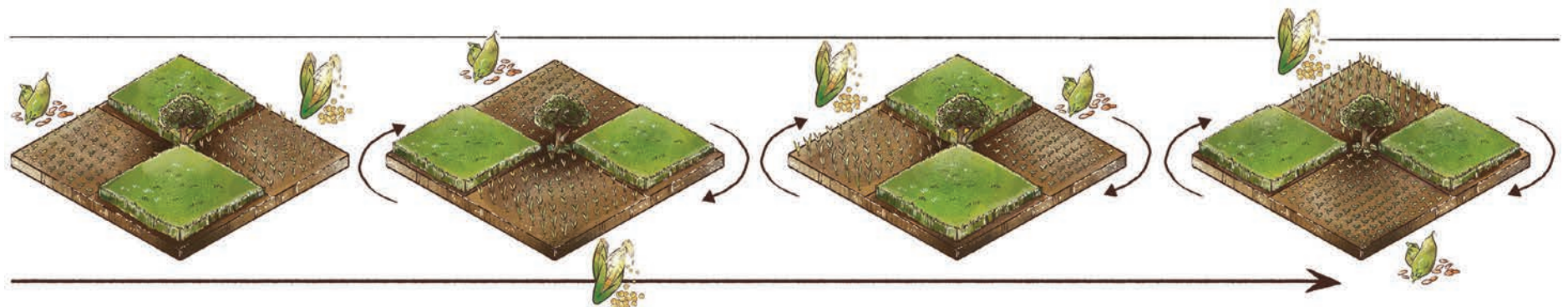
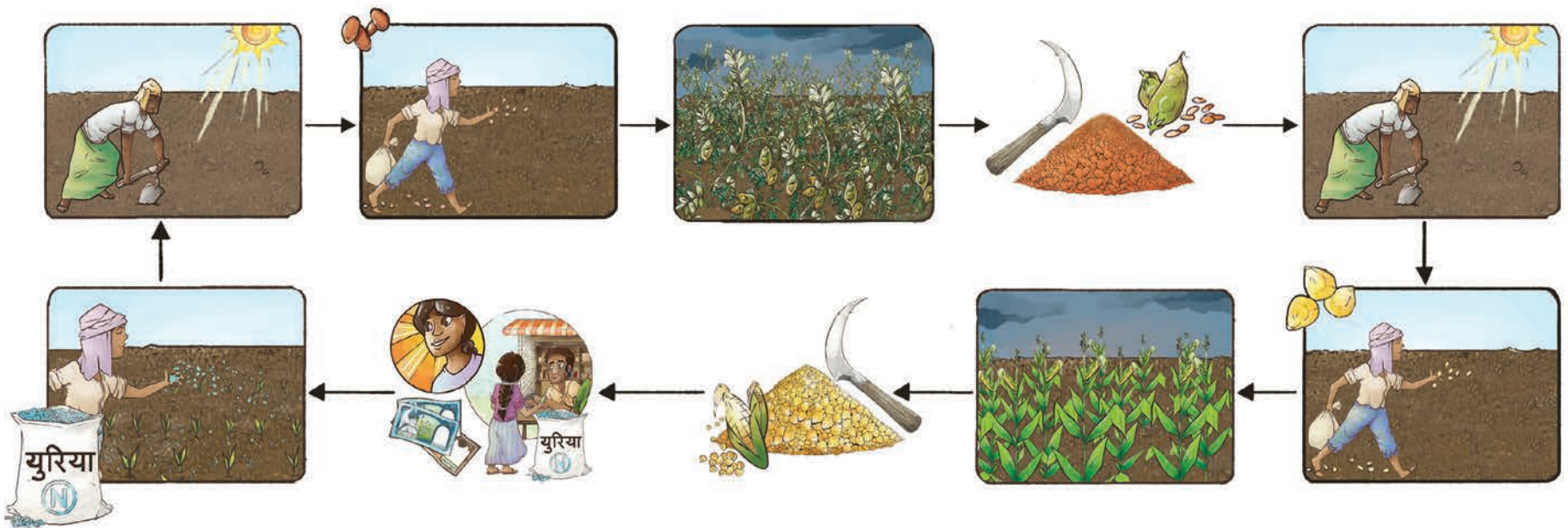
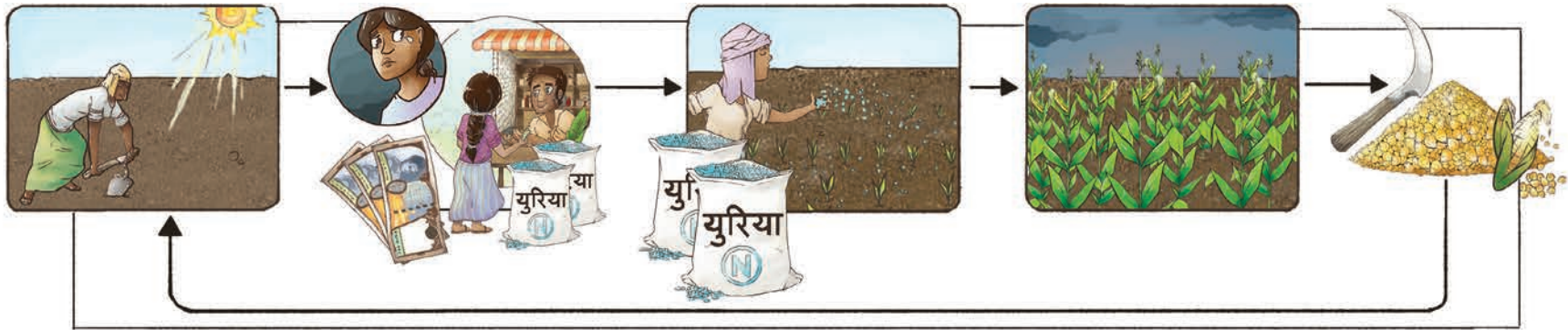


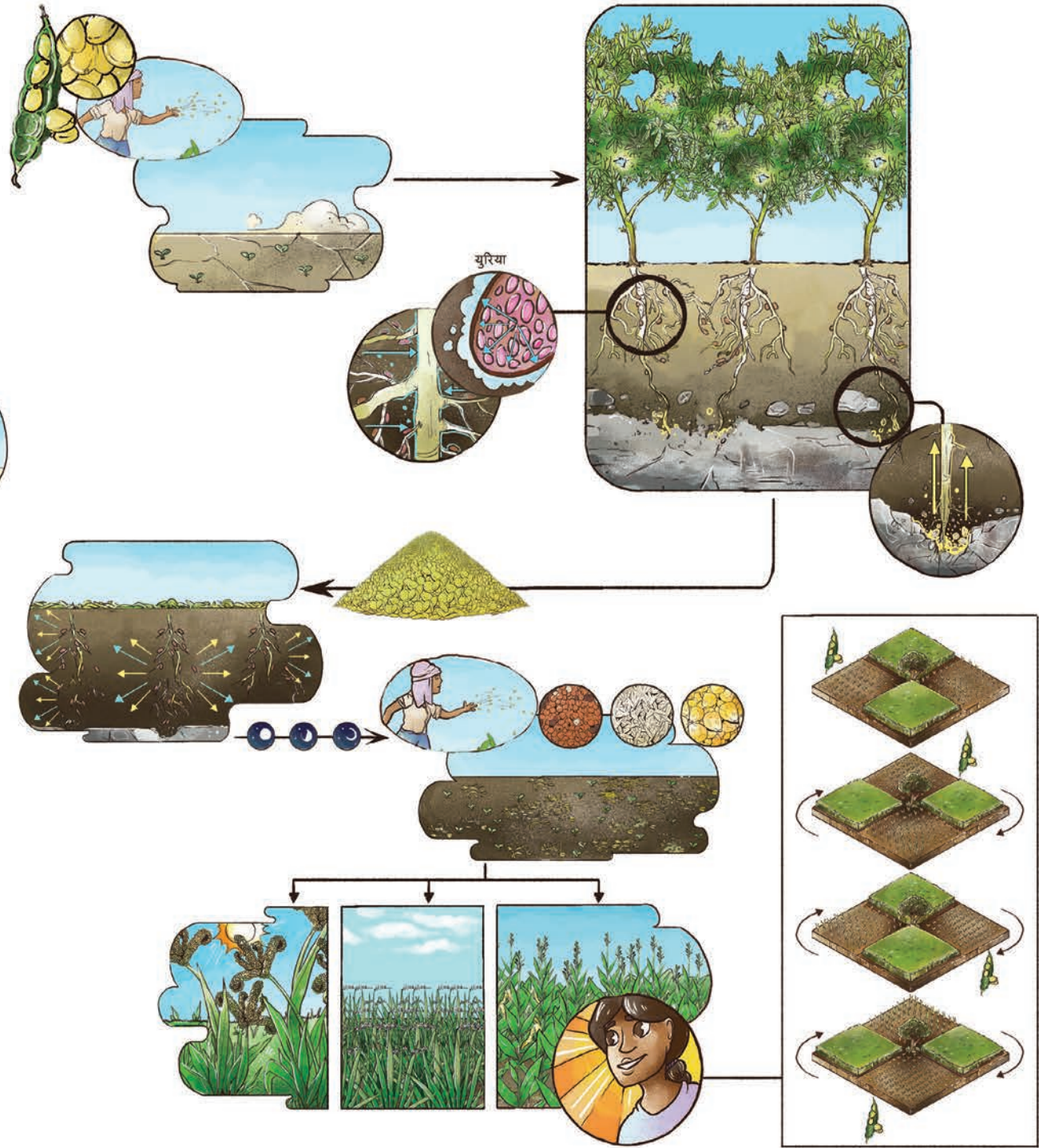
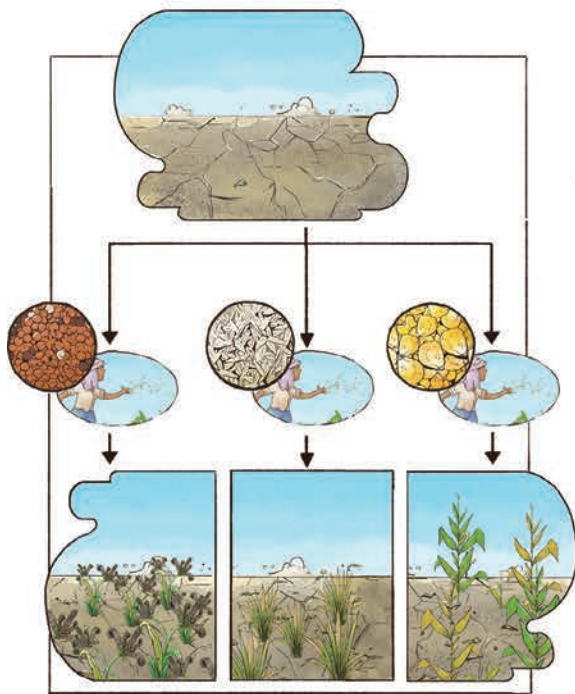


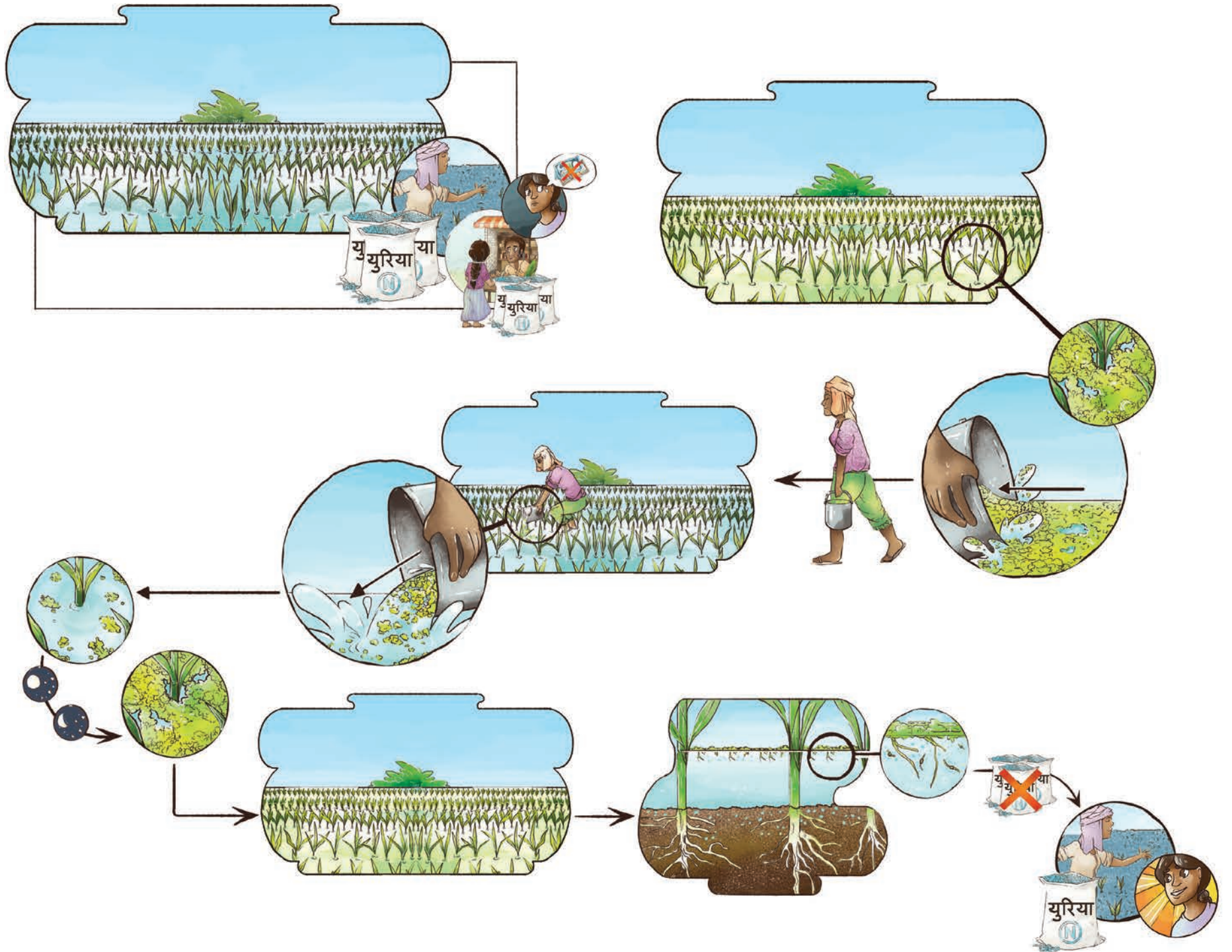




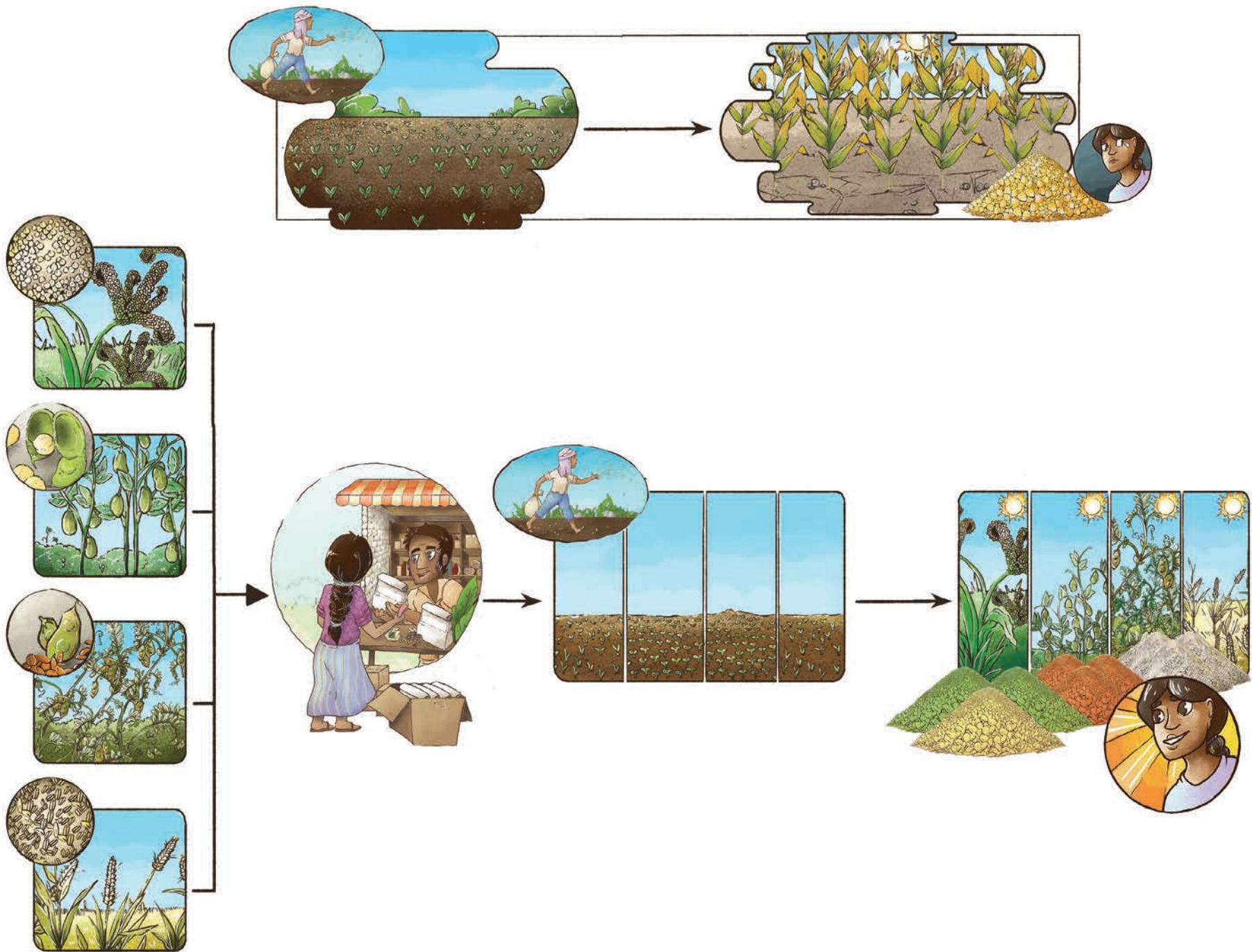


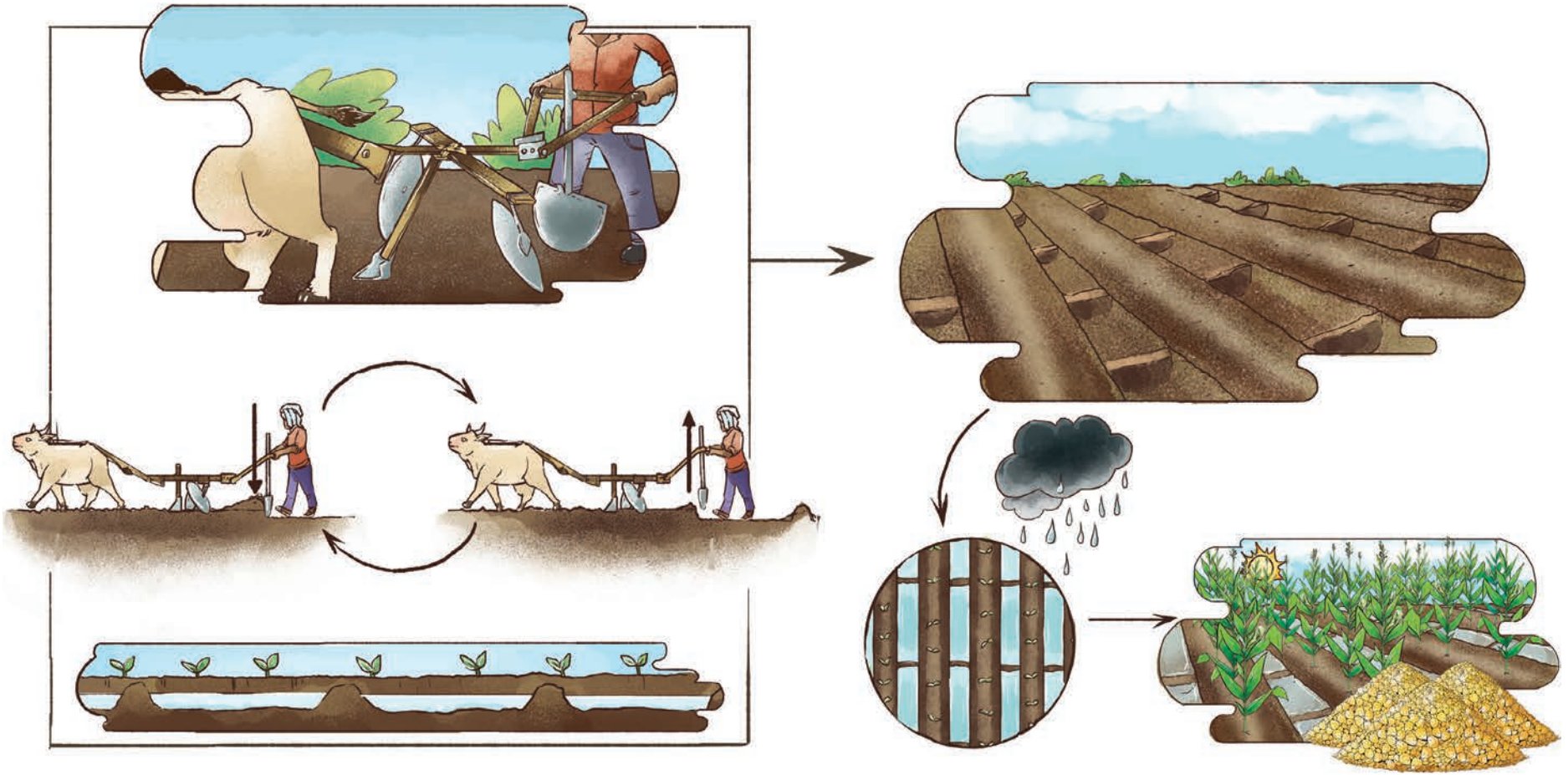
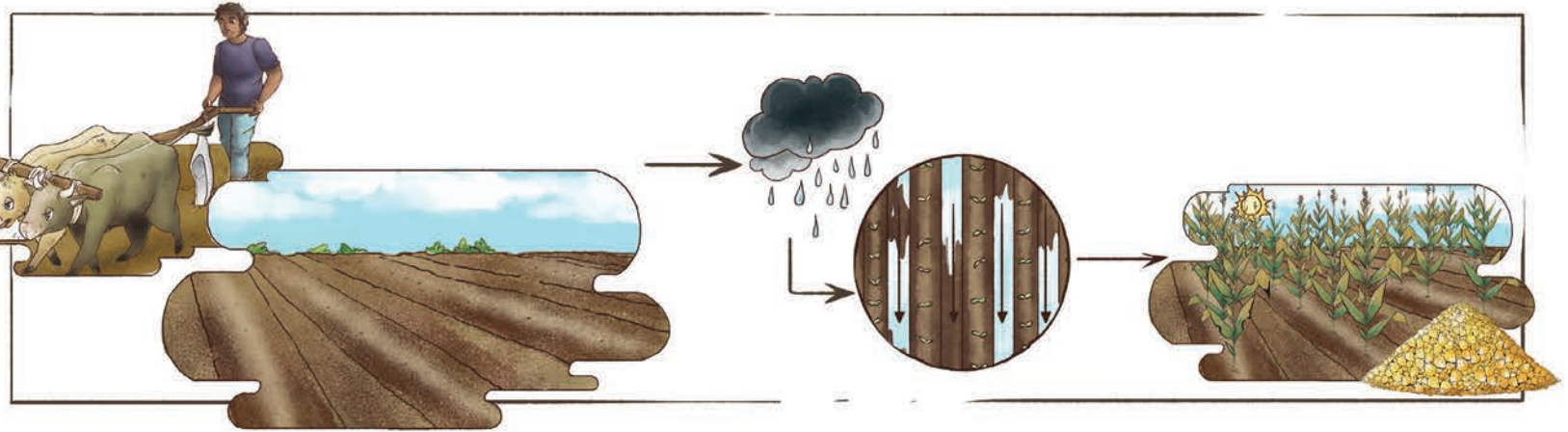


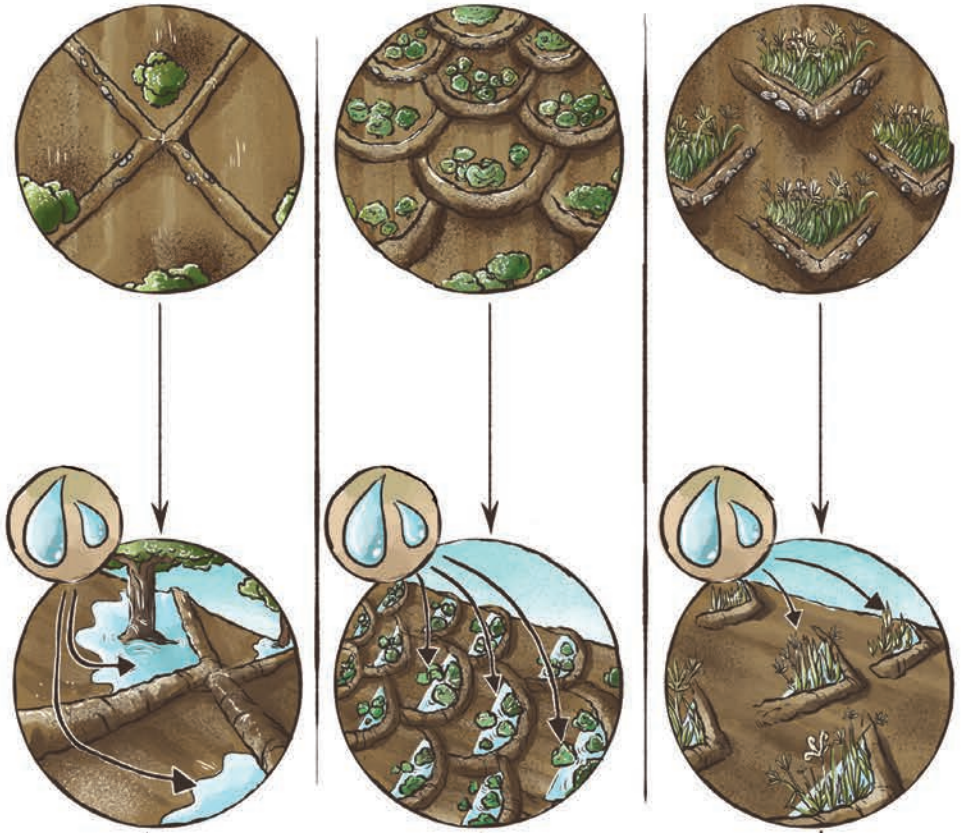
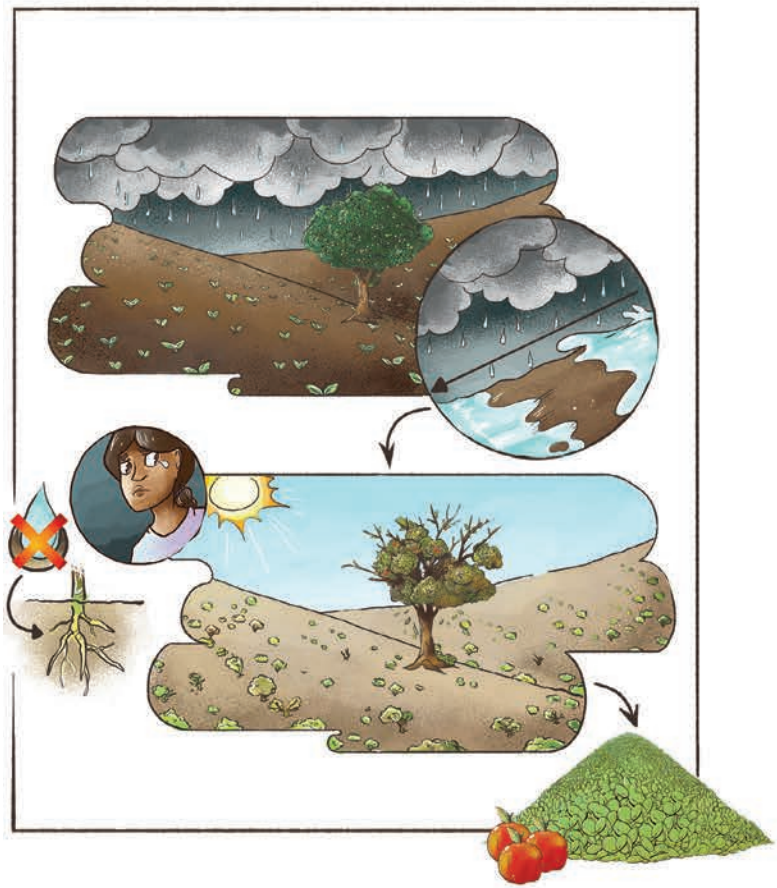


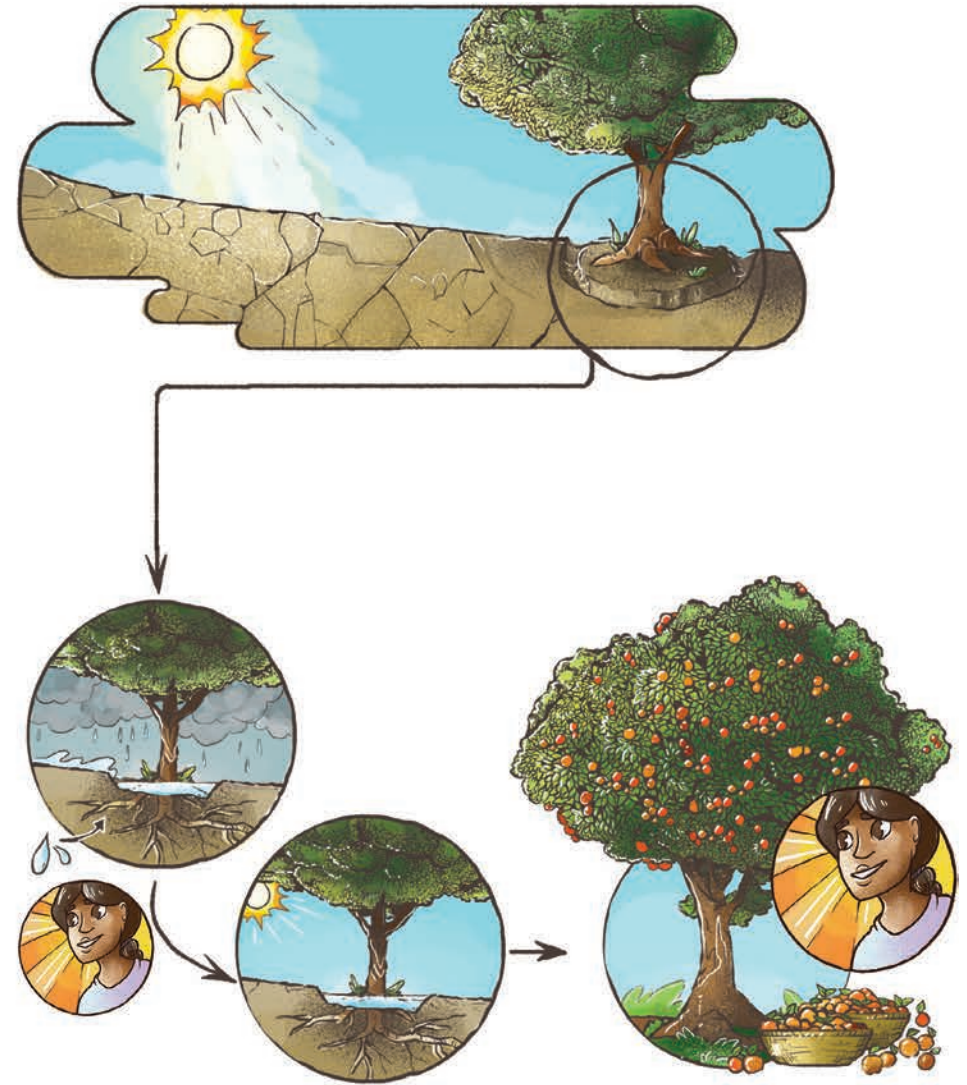
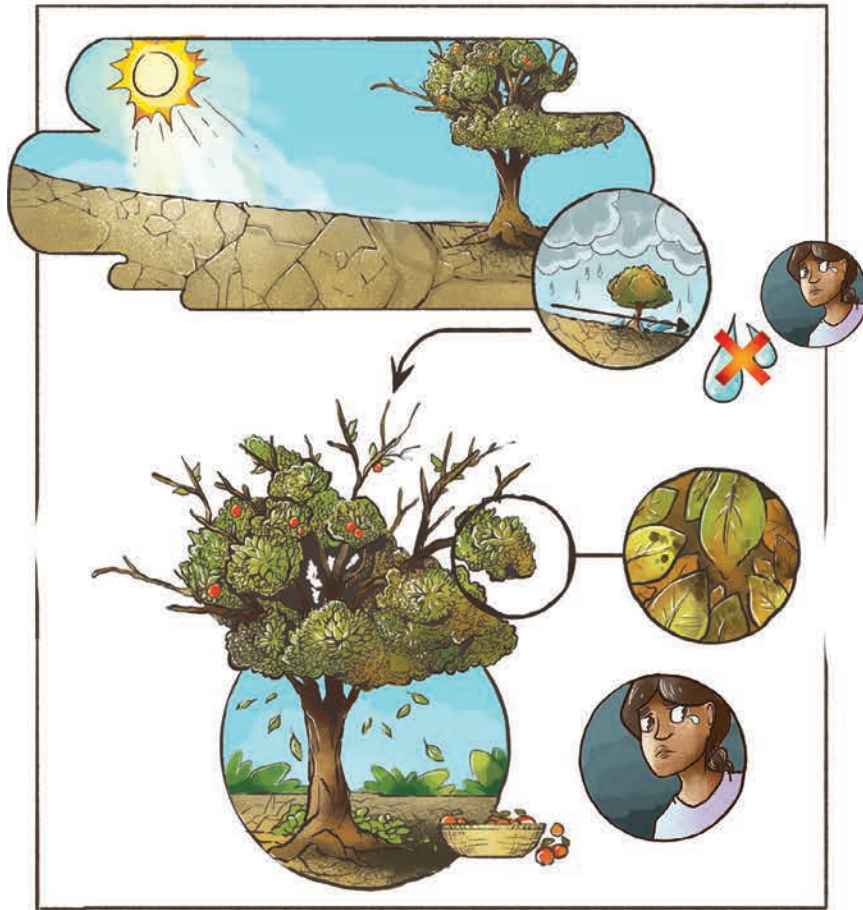


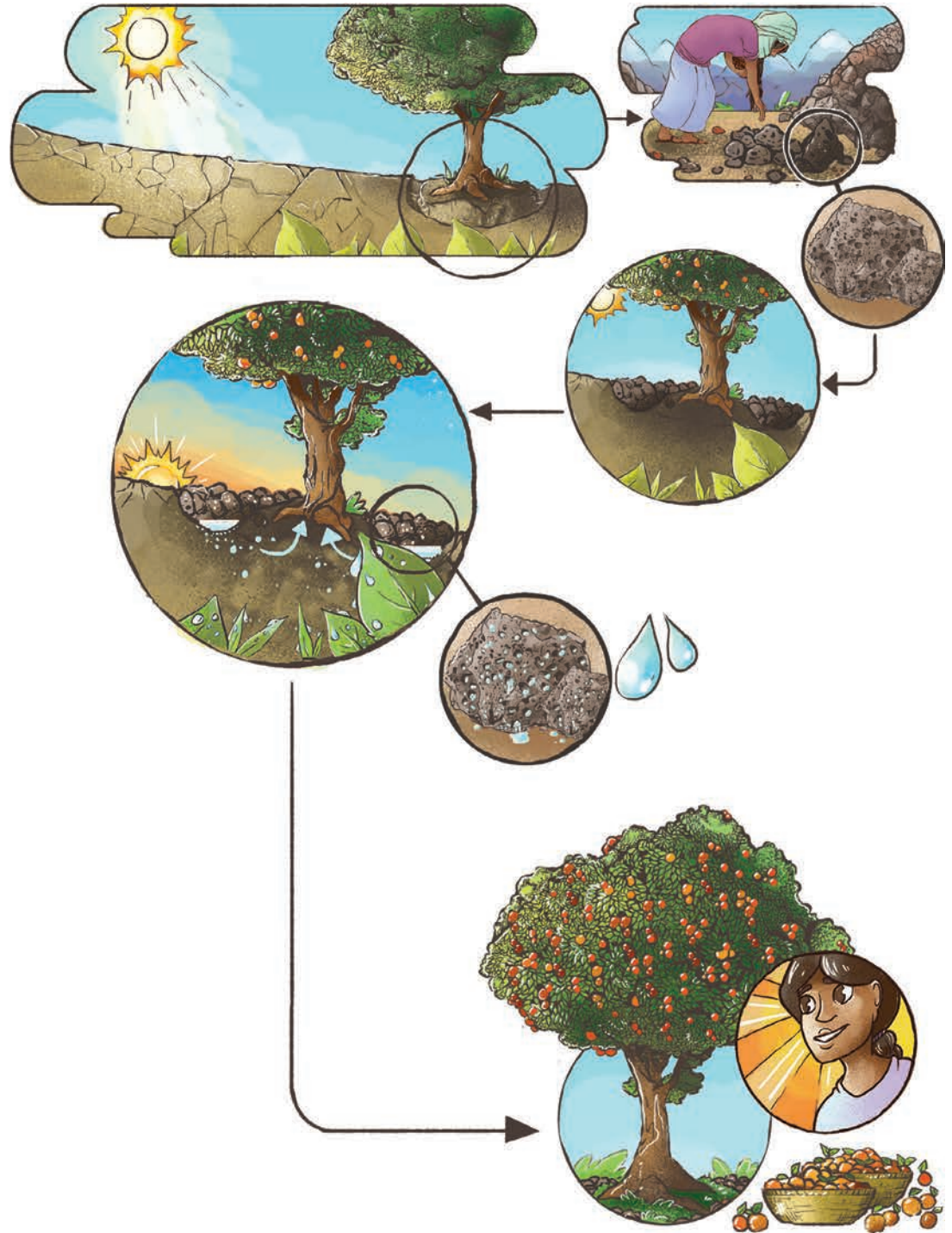
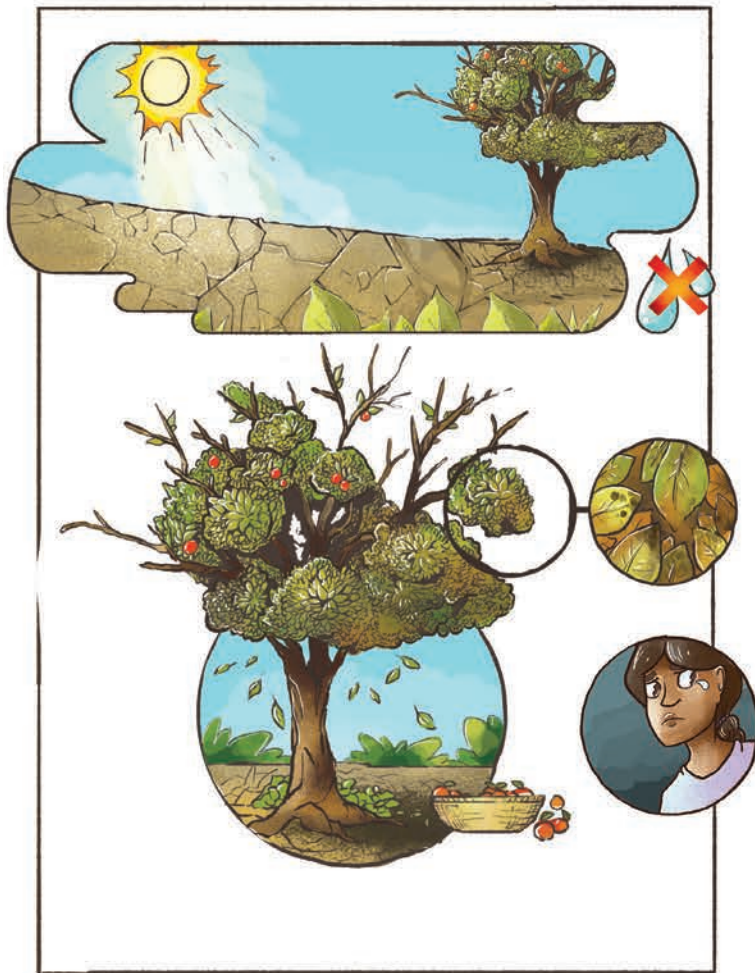
Chapter 6: Water

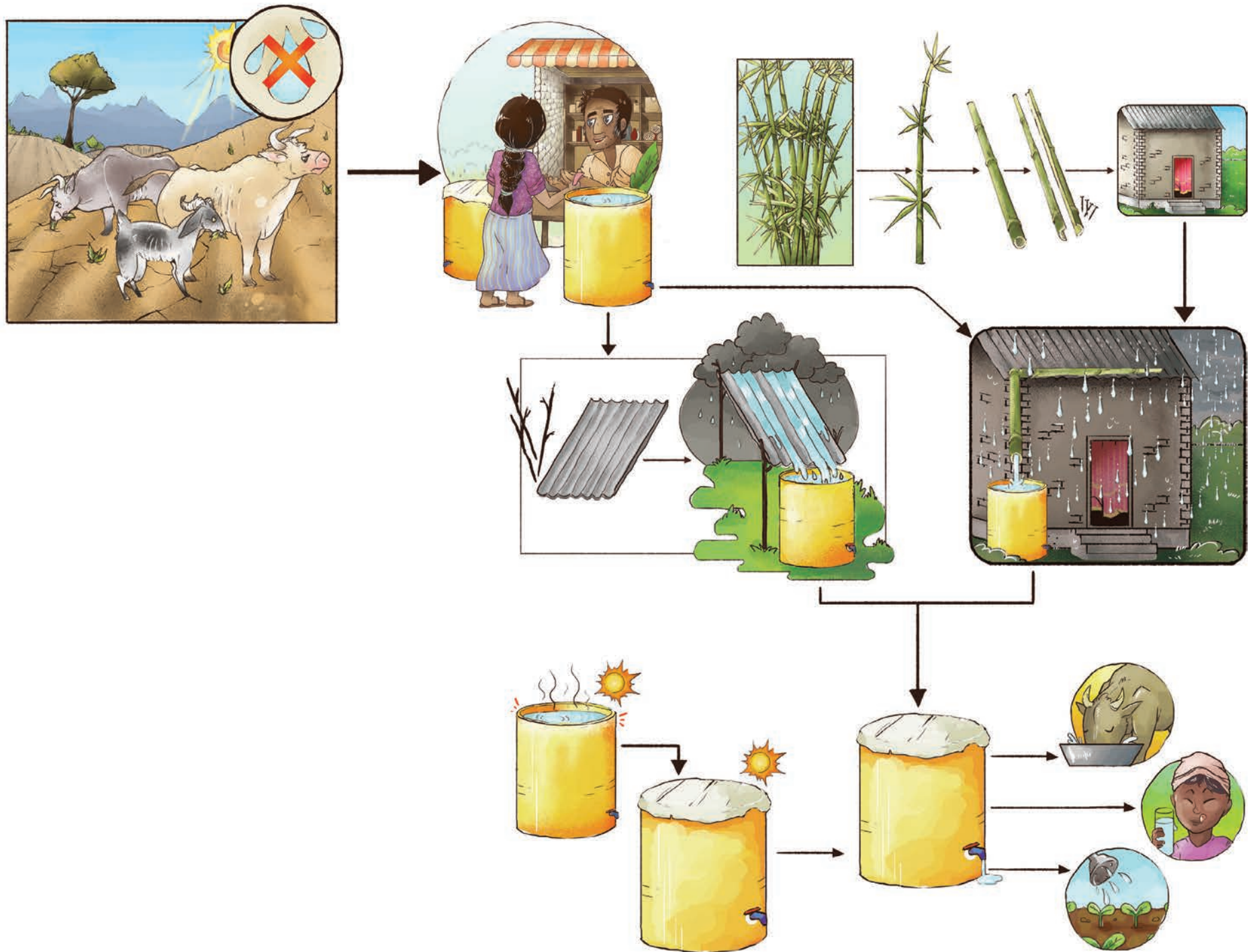


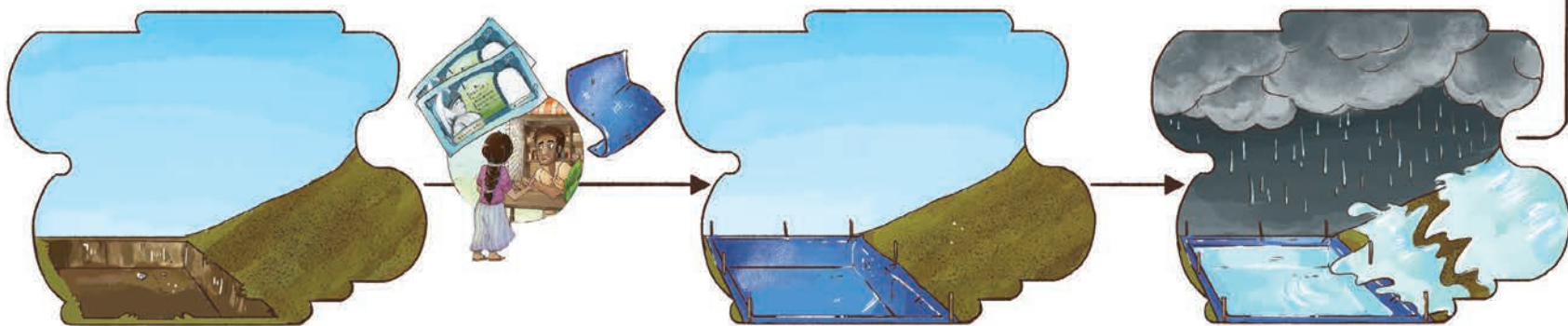
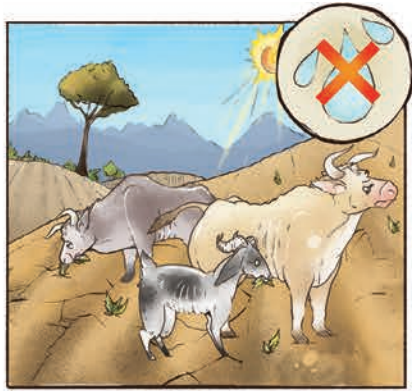


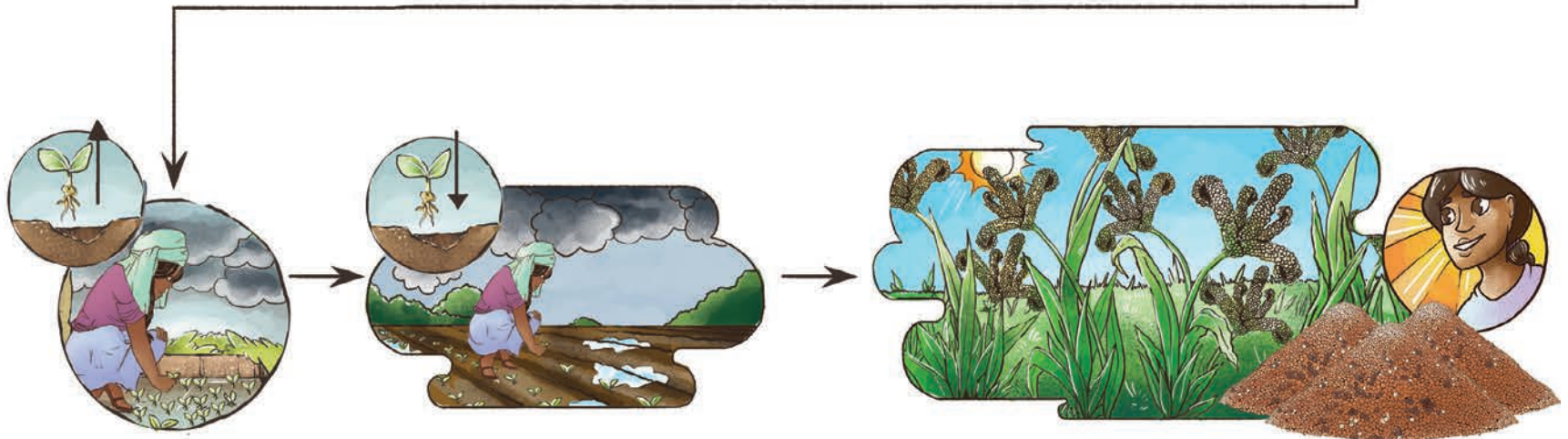
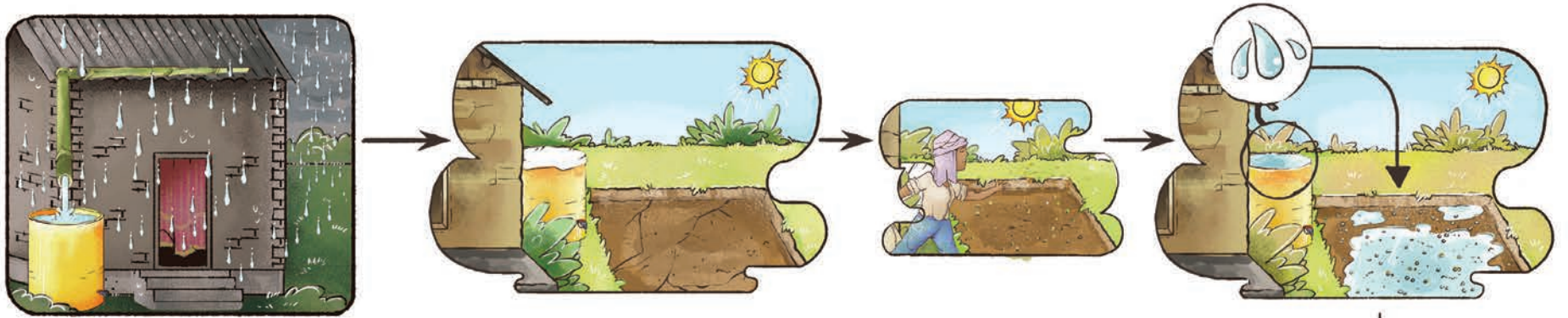
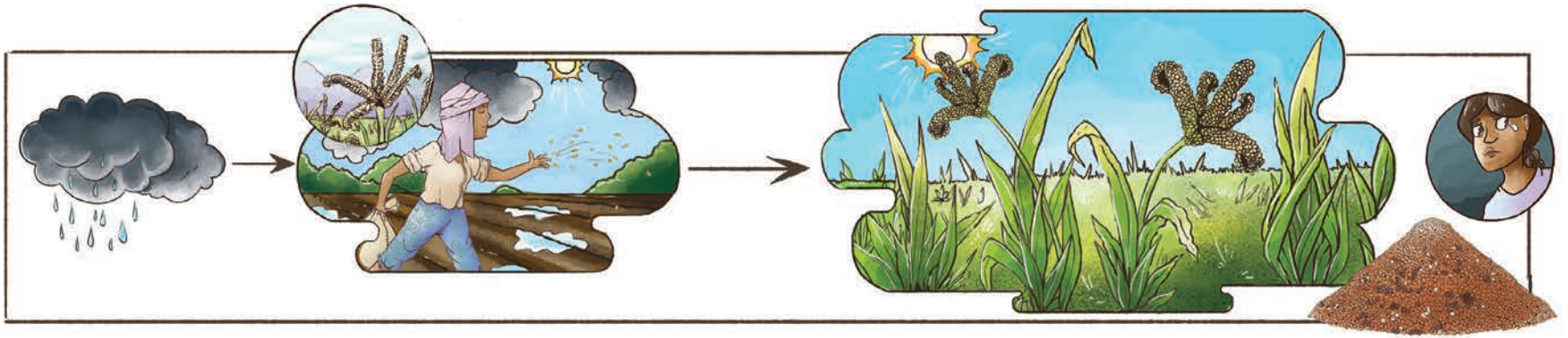


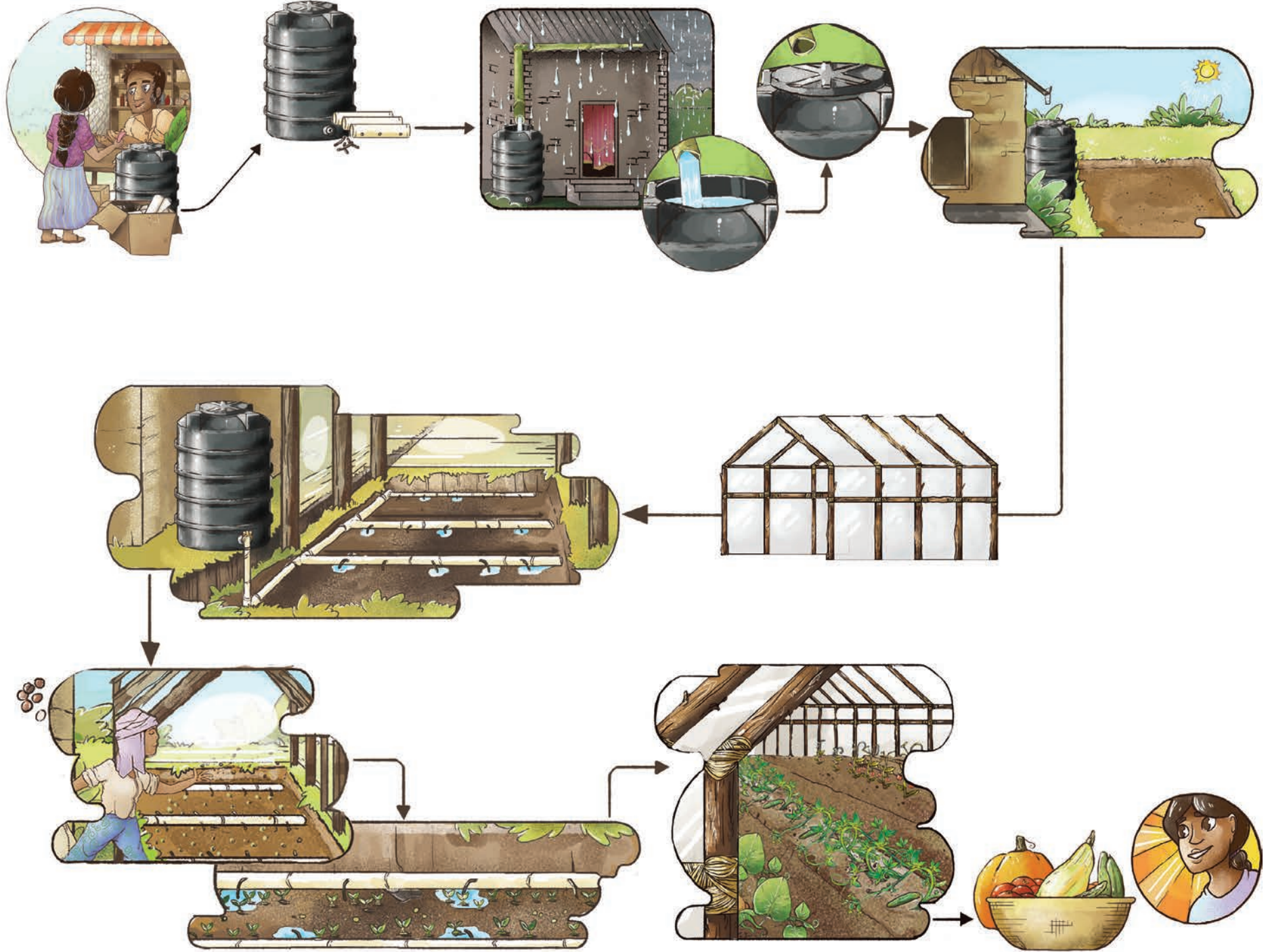


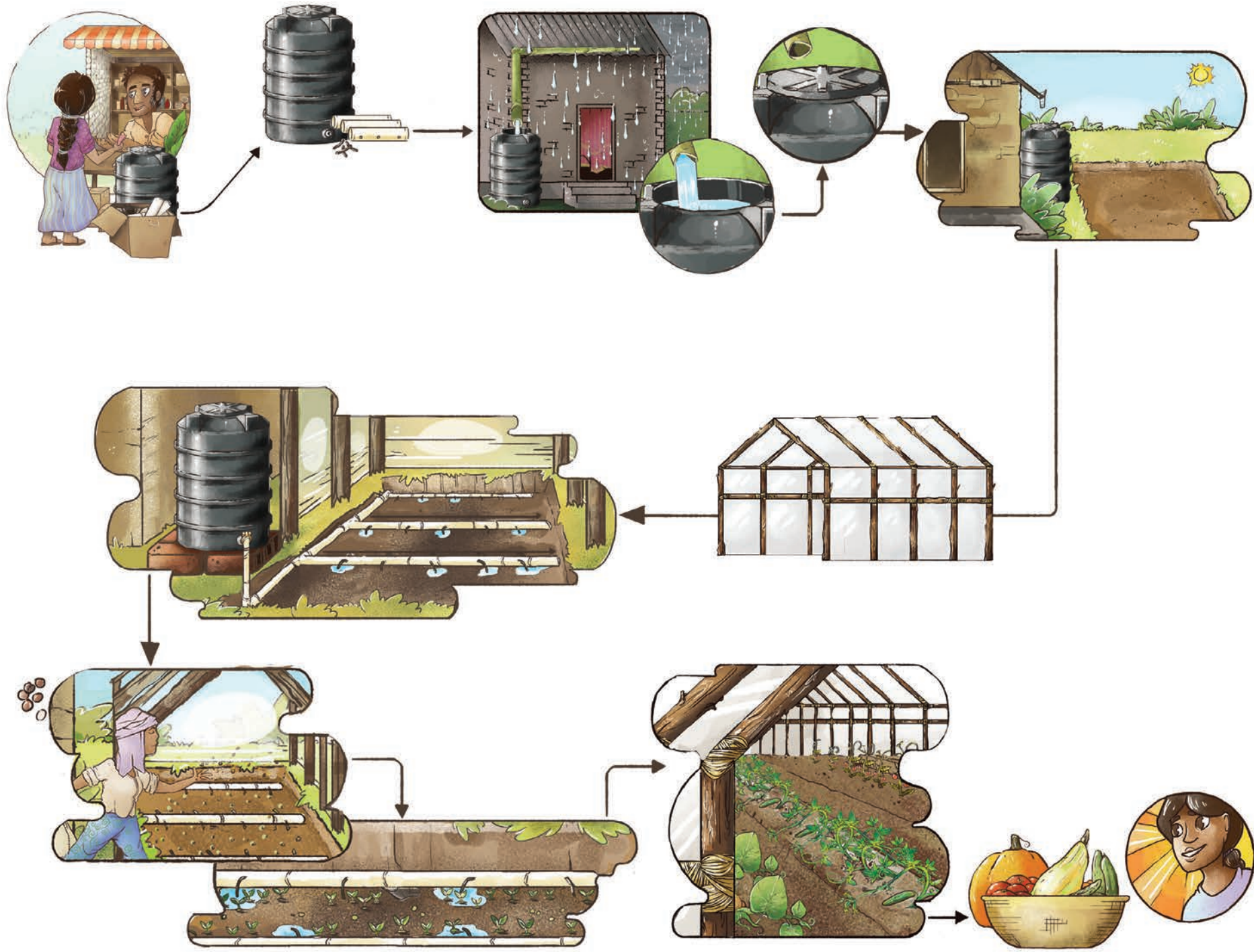


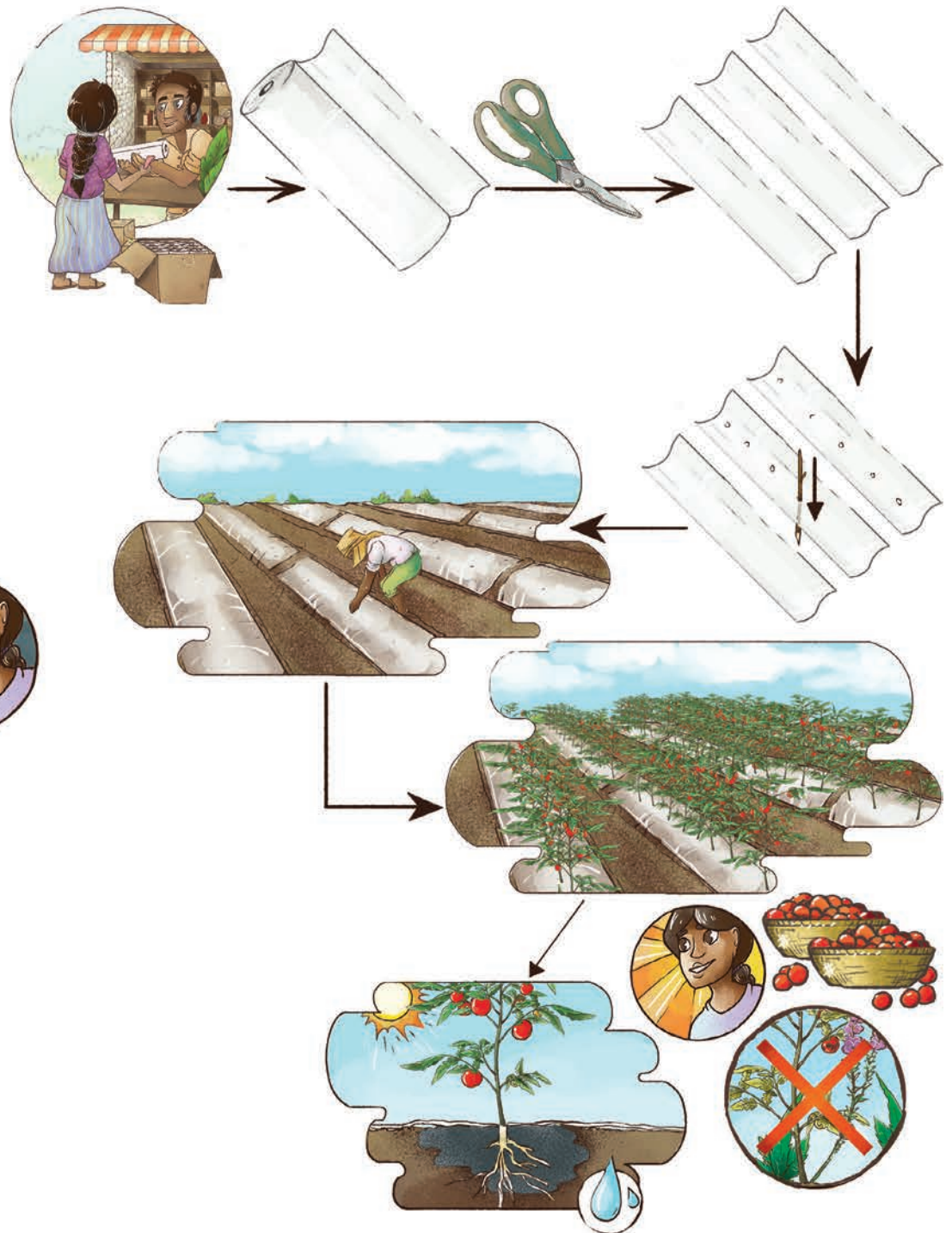
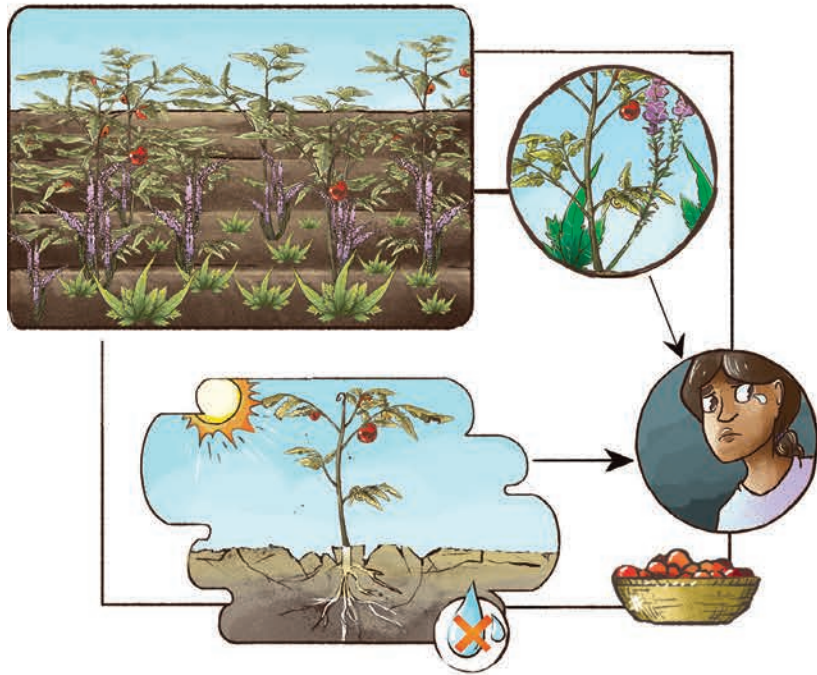


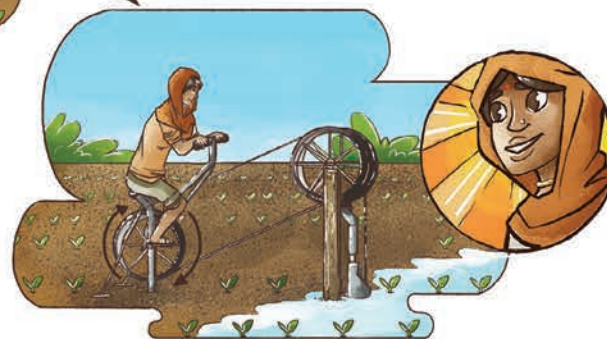
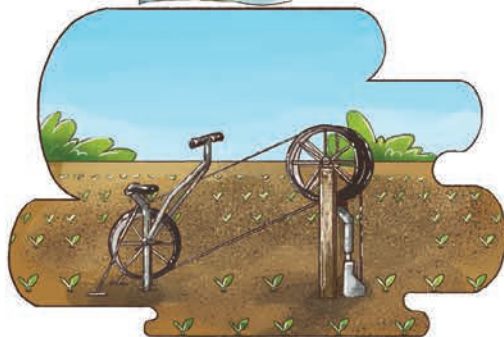
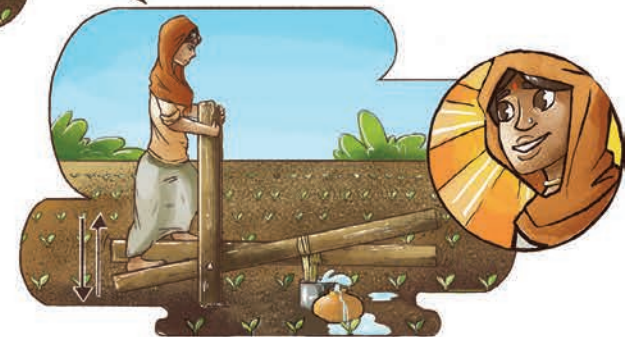
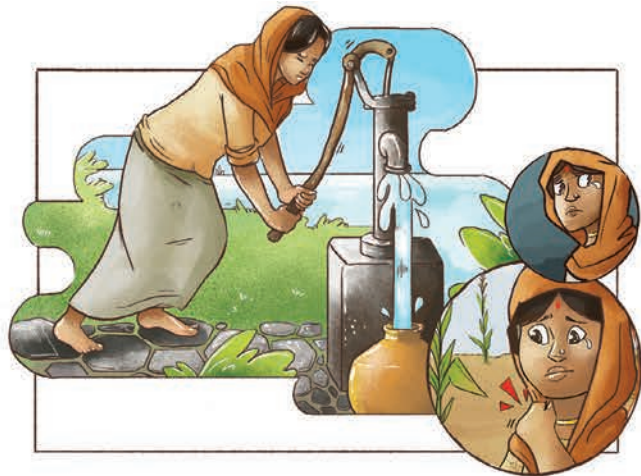




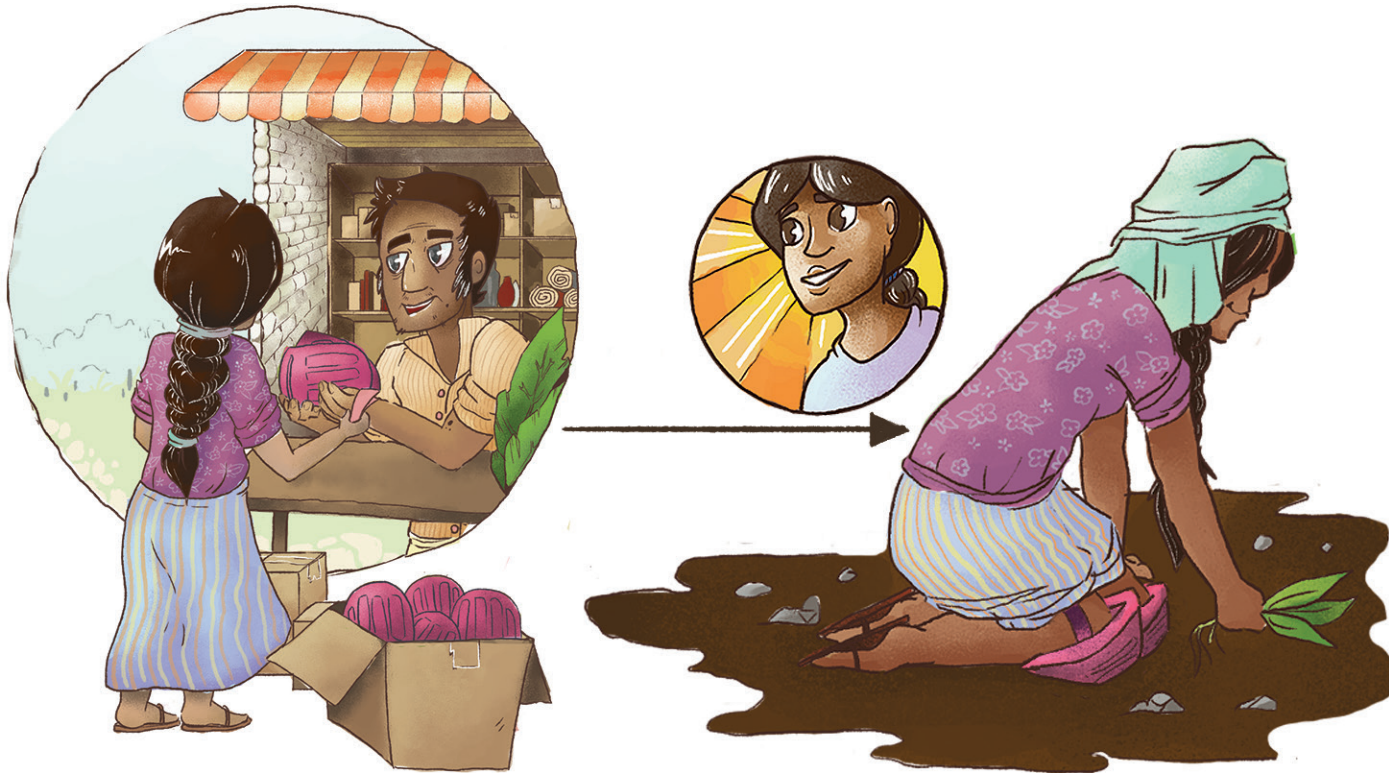


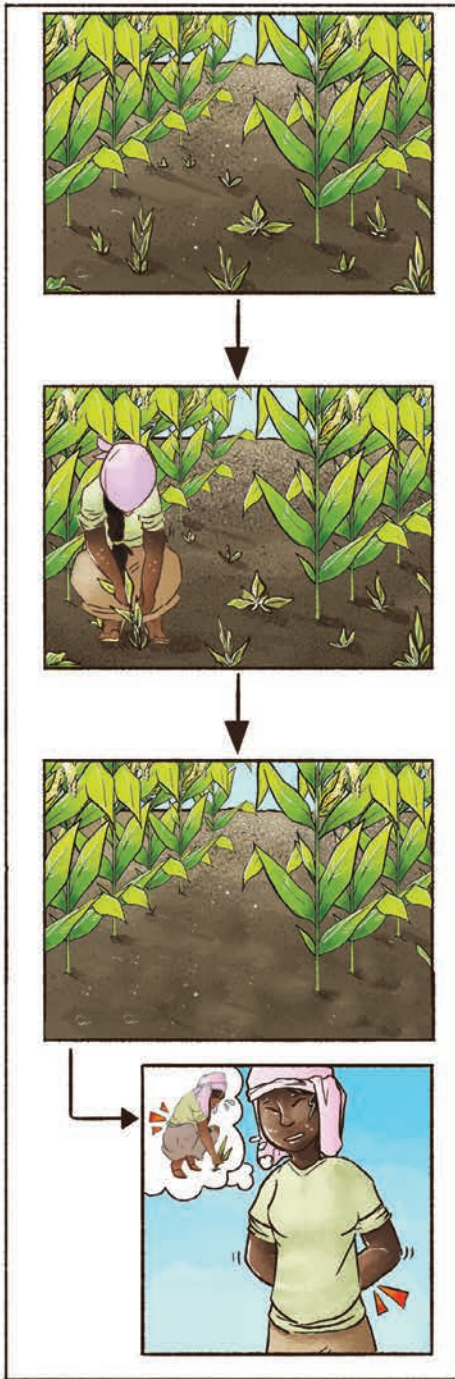


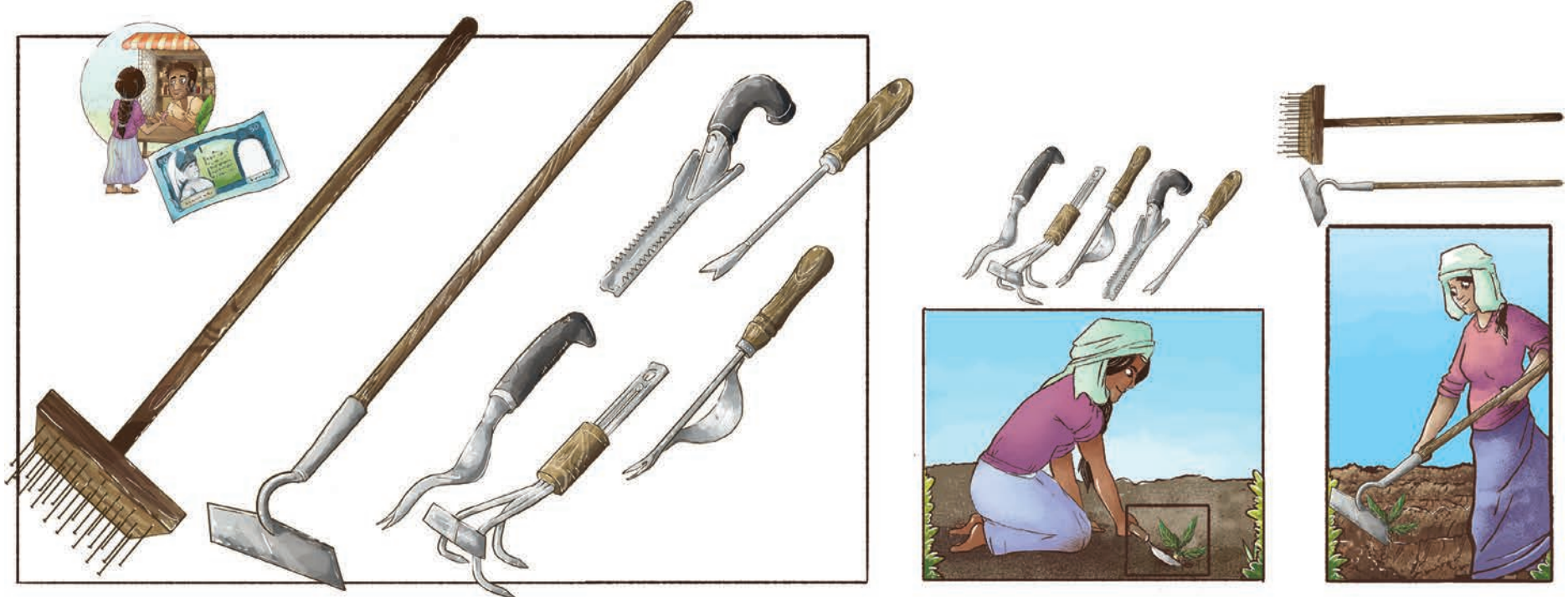
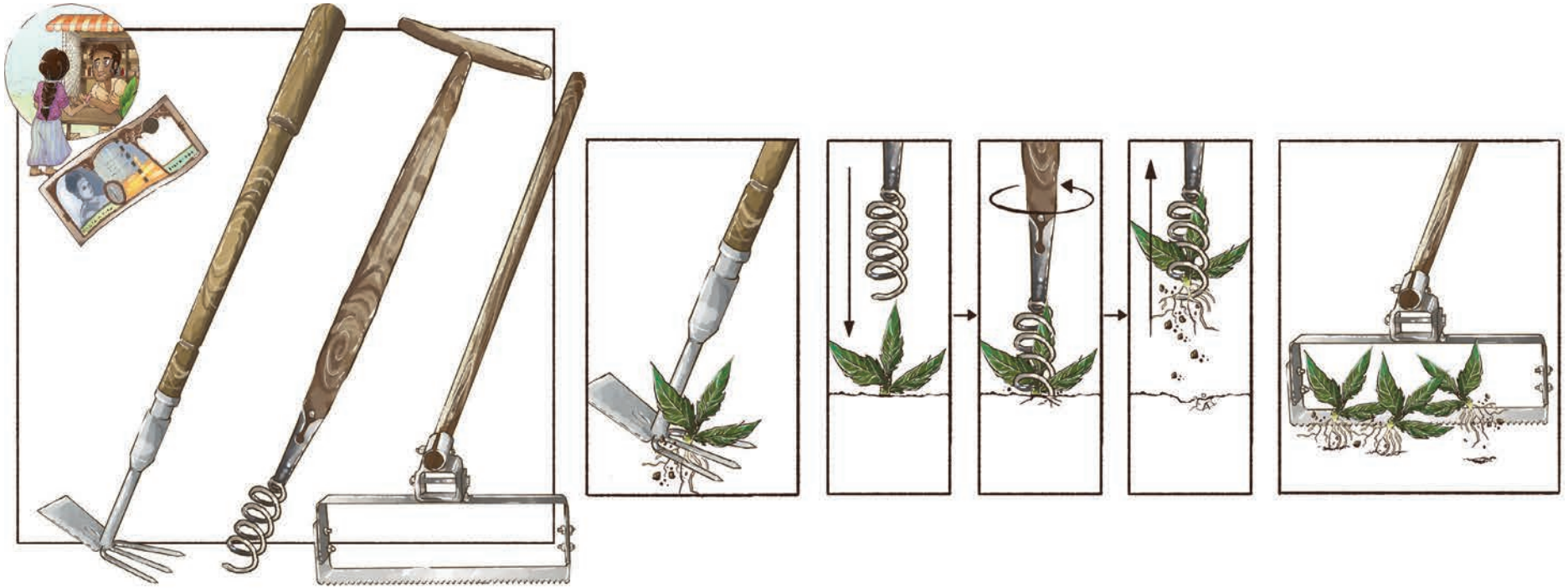




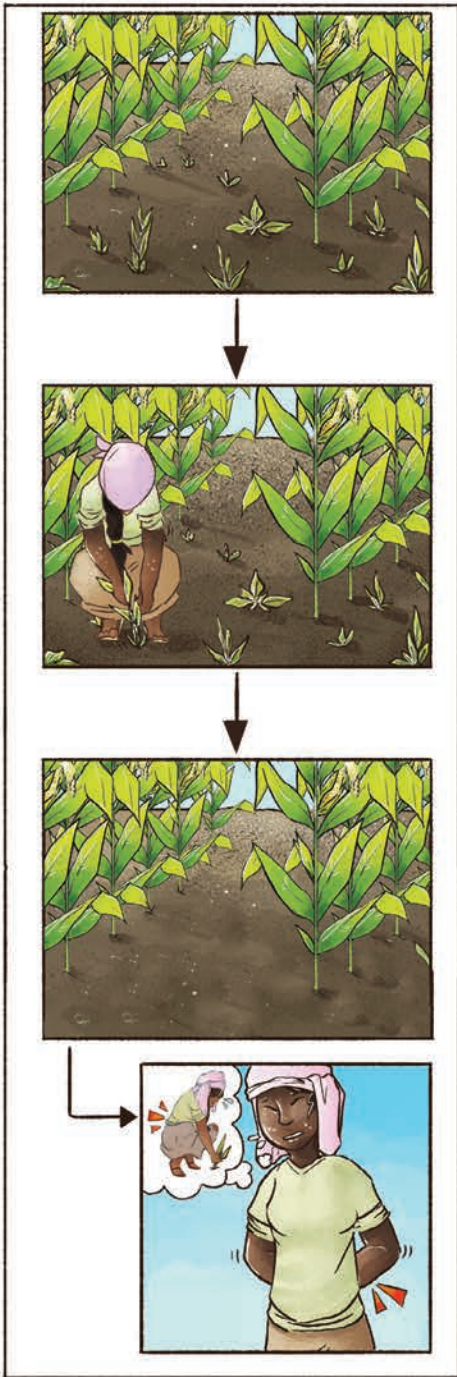
Chapter 7: Weeds

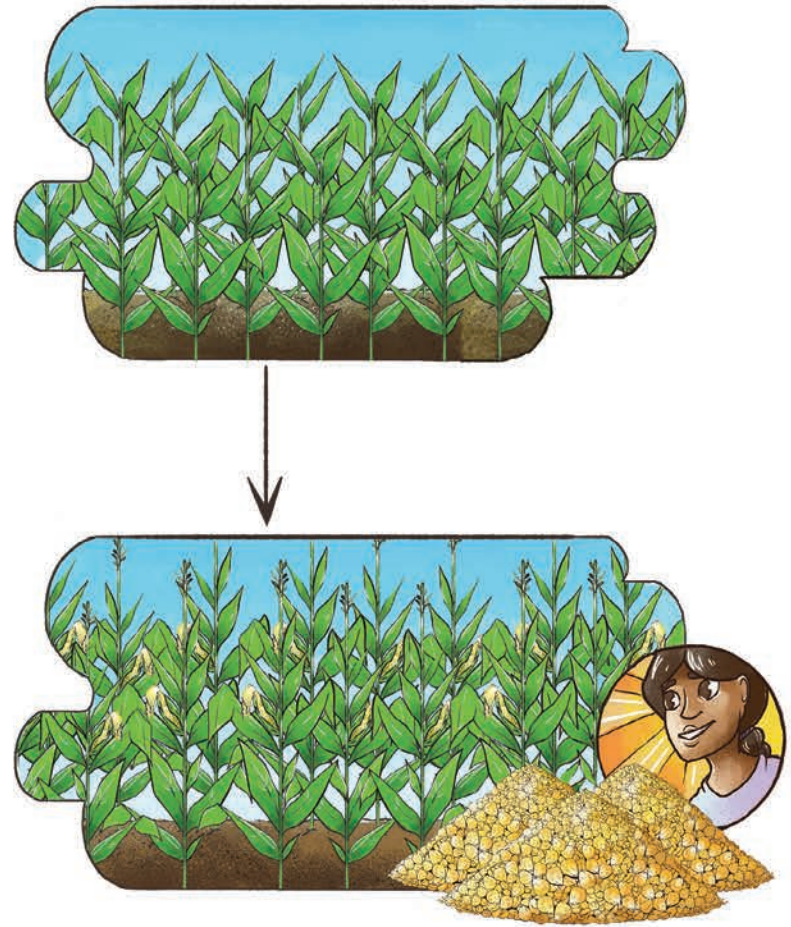
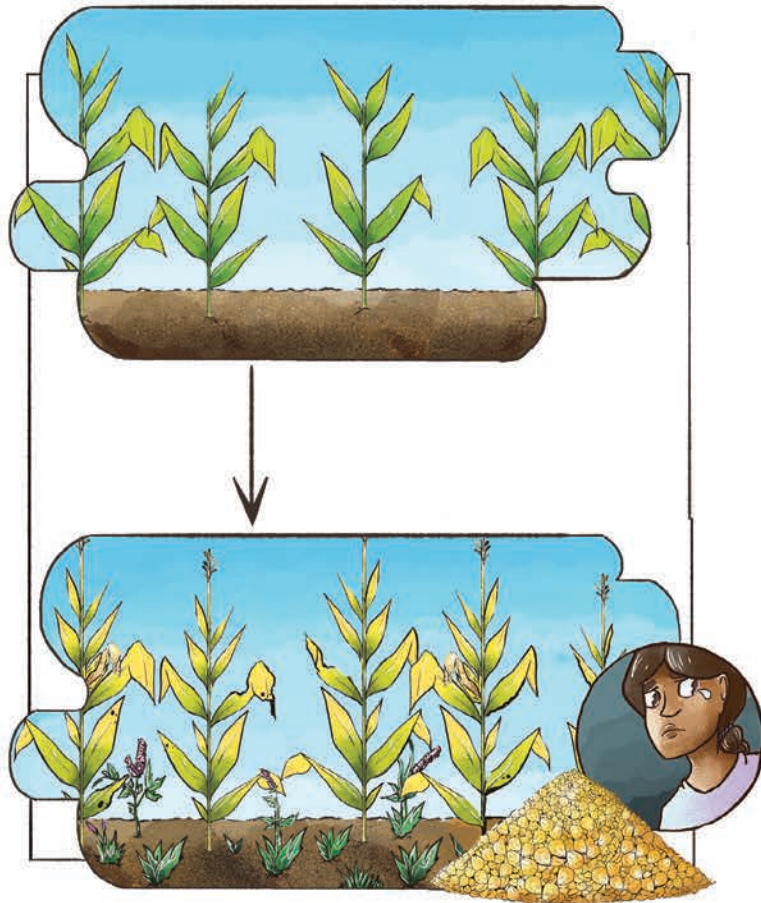


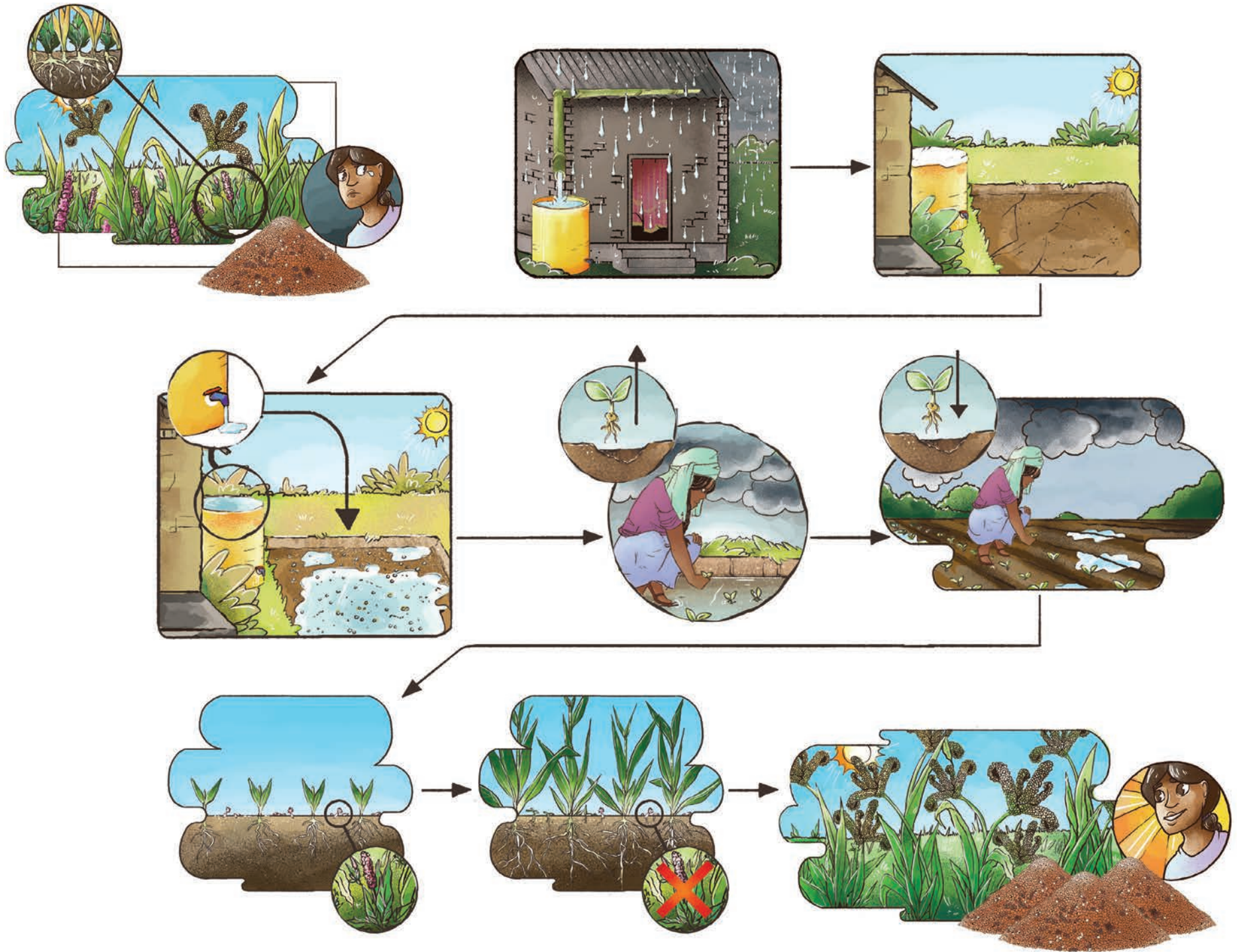


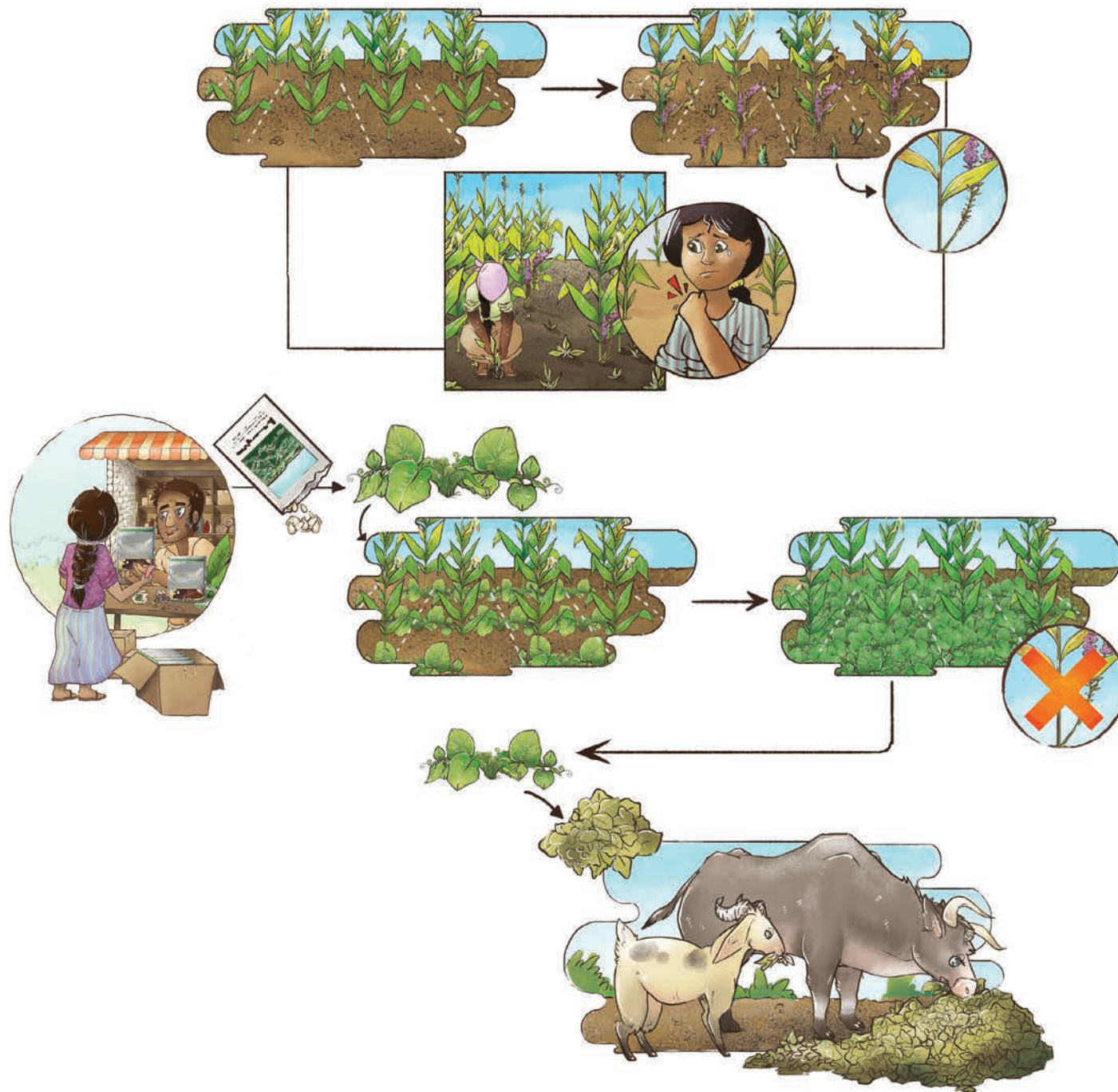


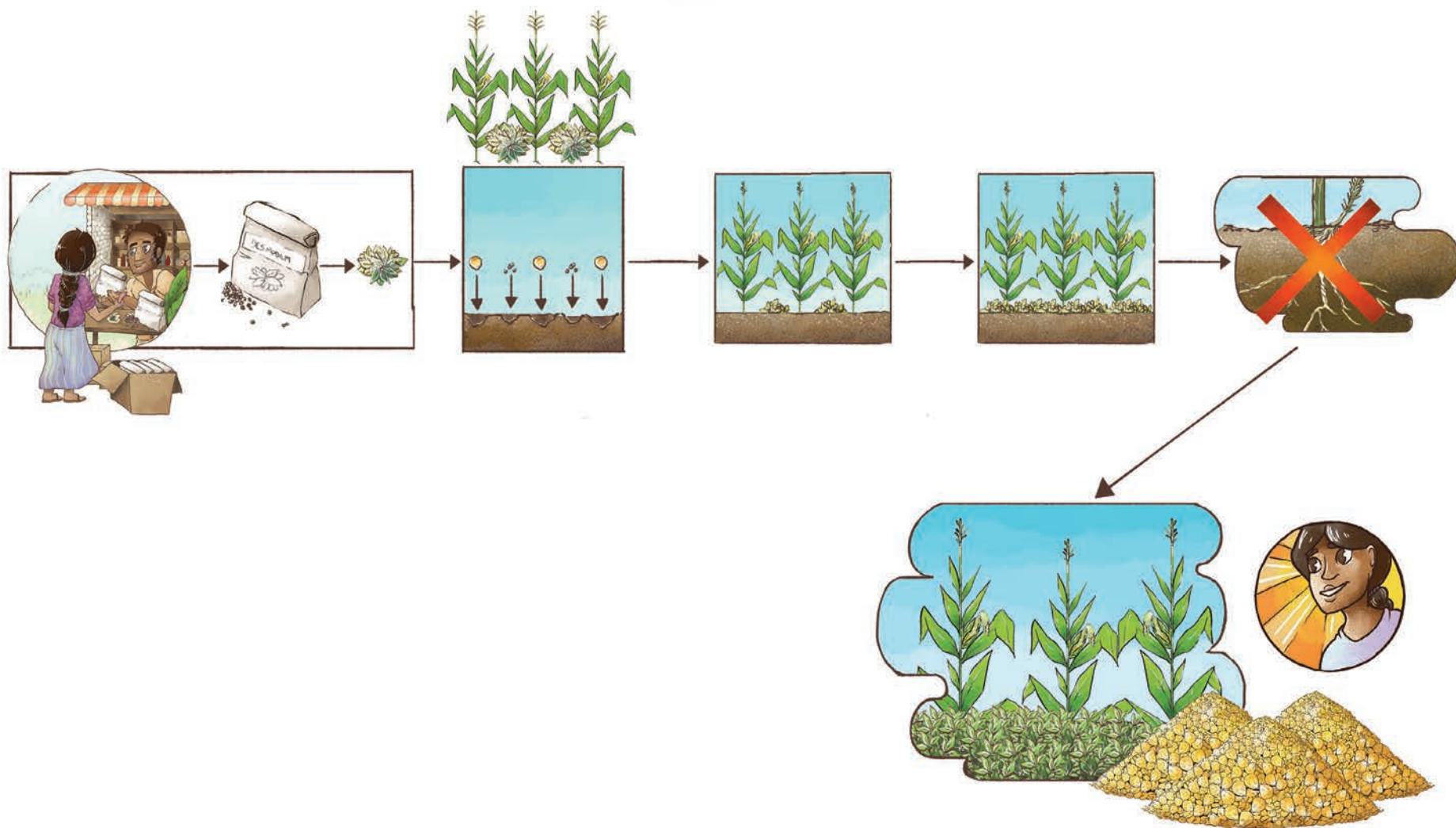
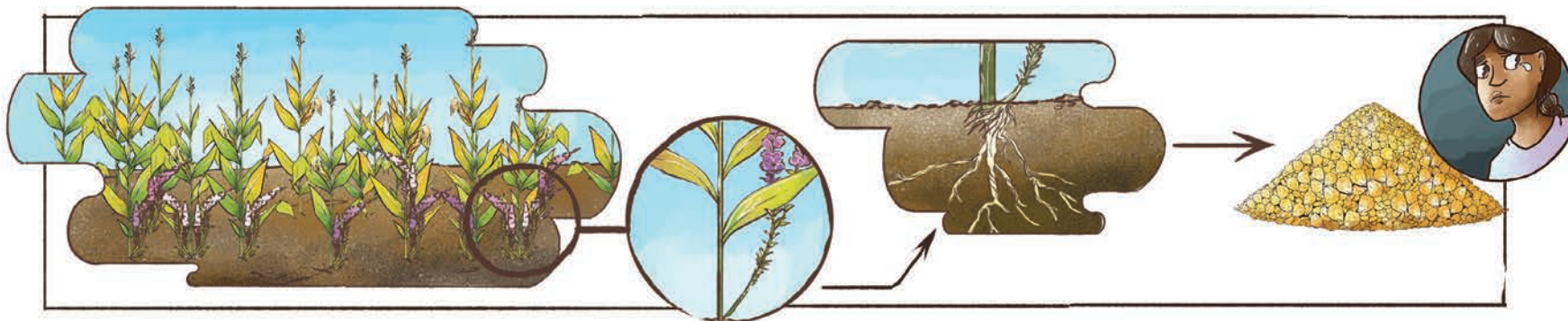


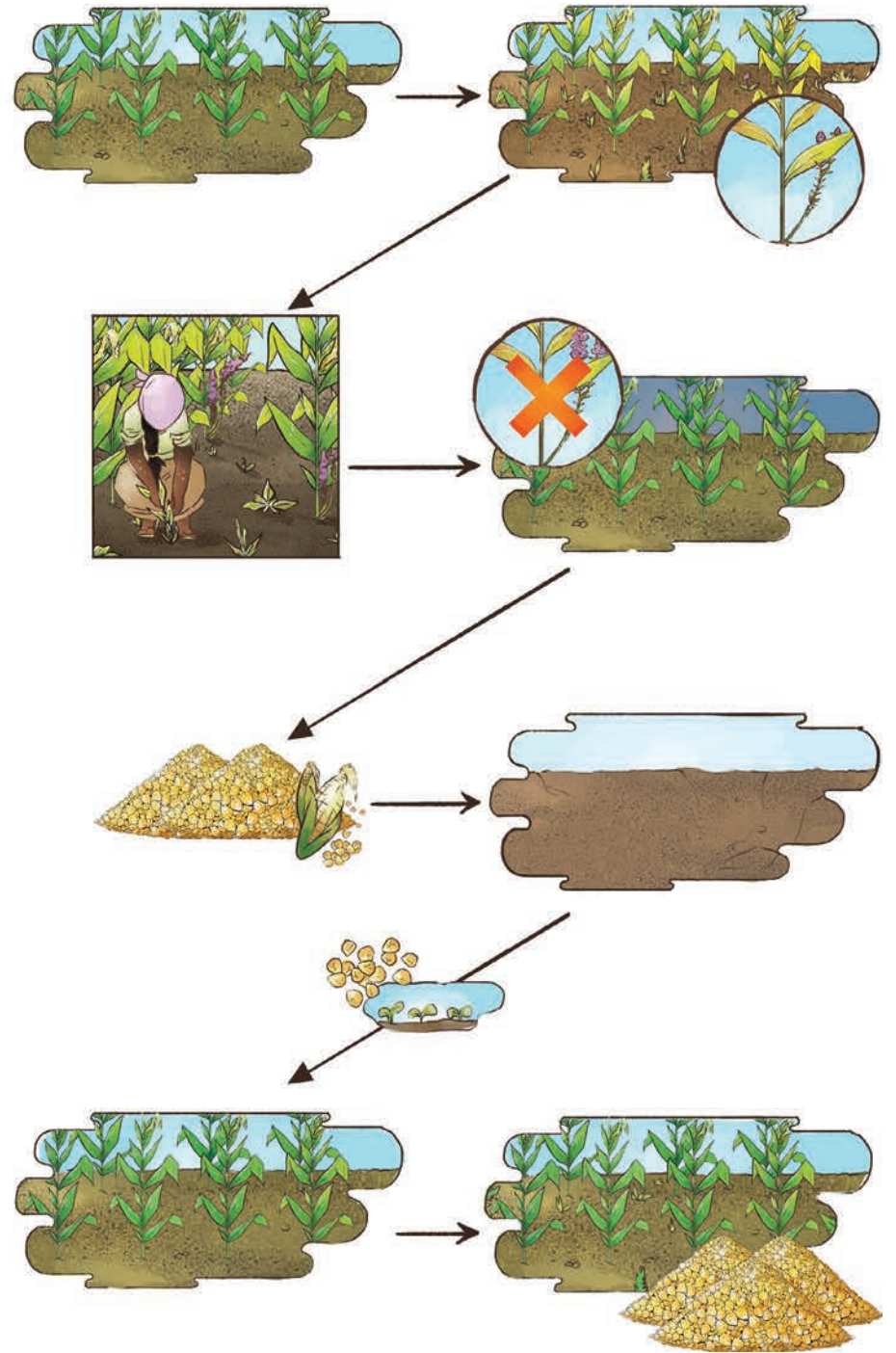
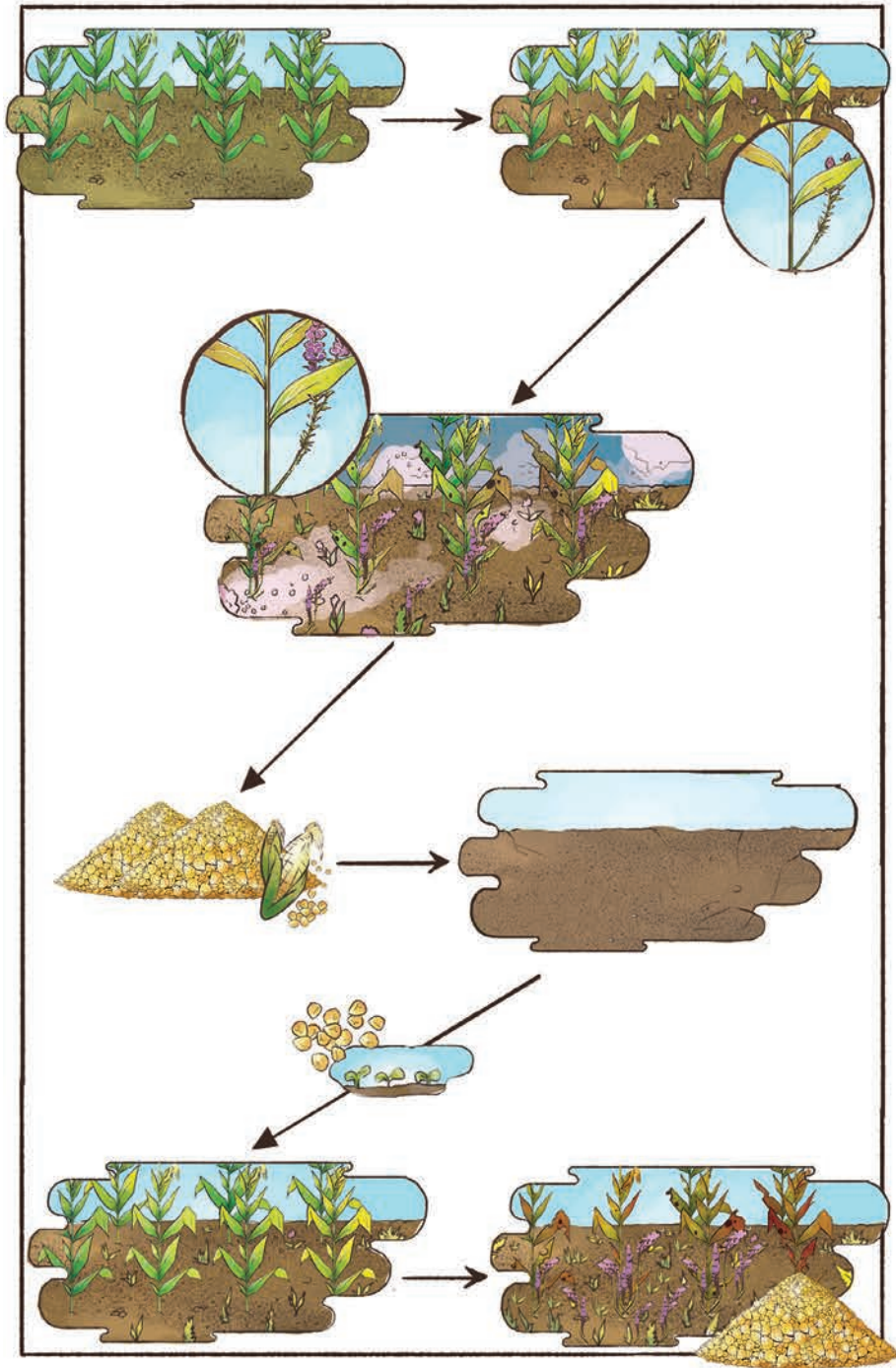




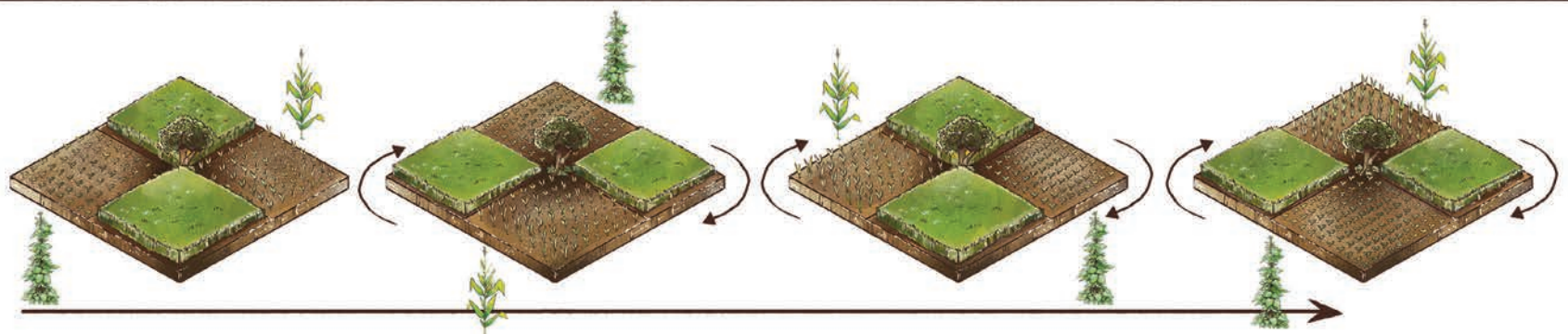
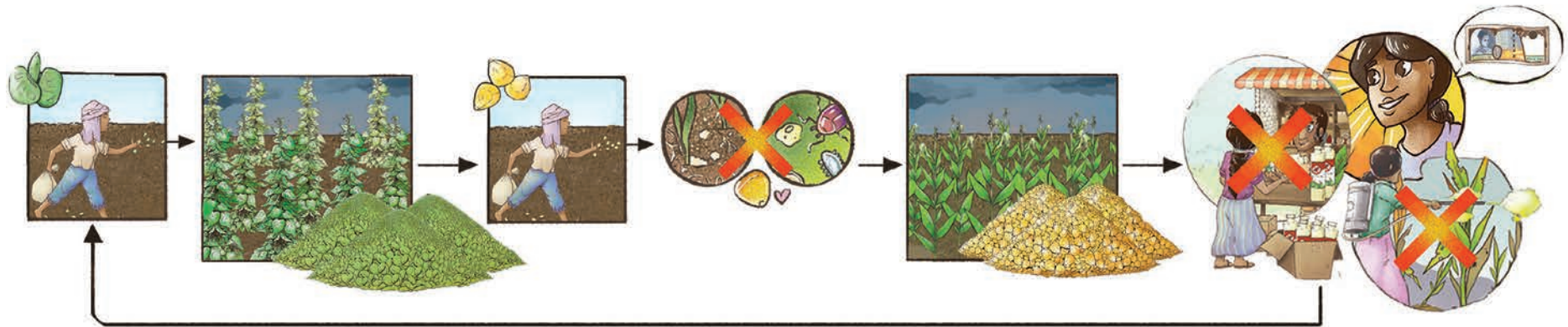
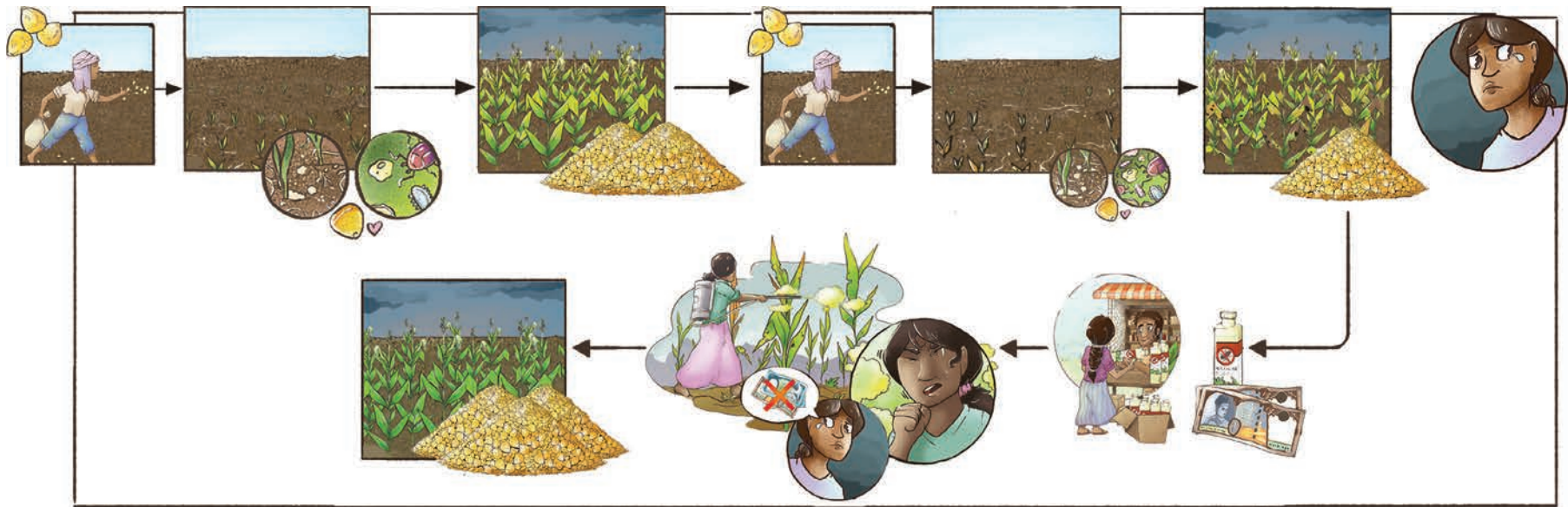


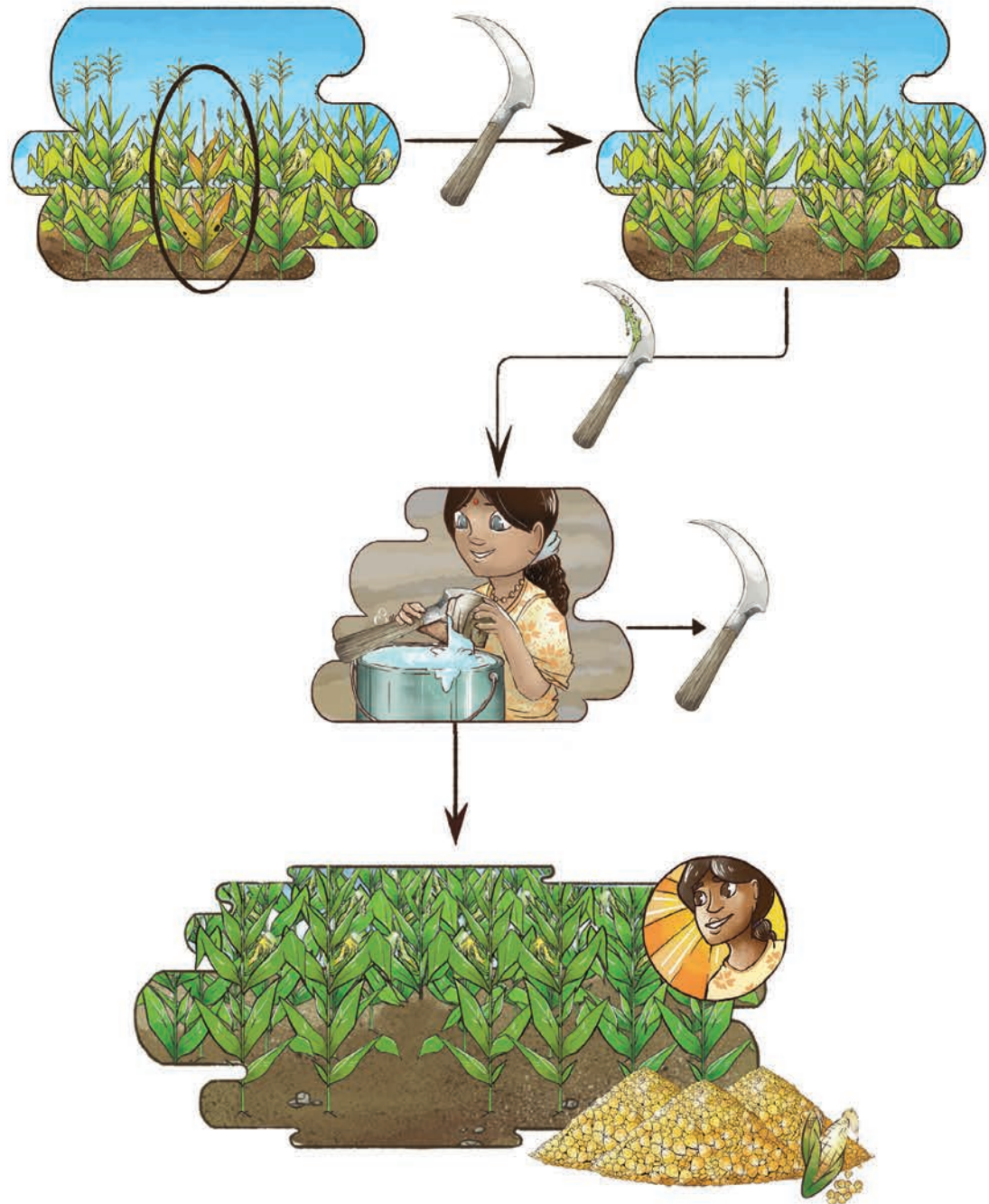
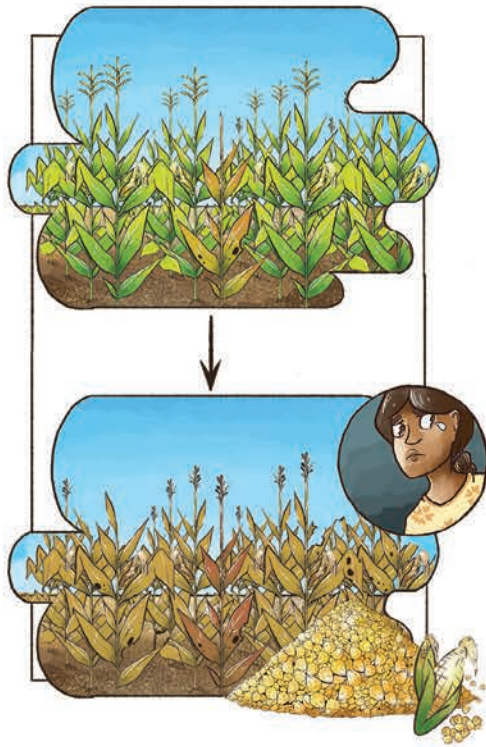


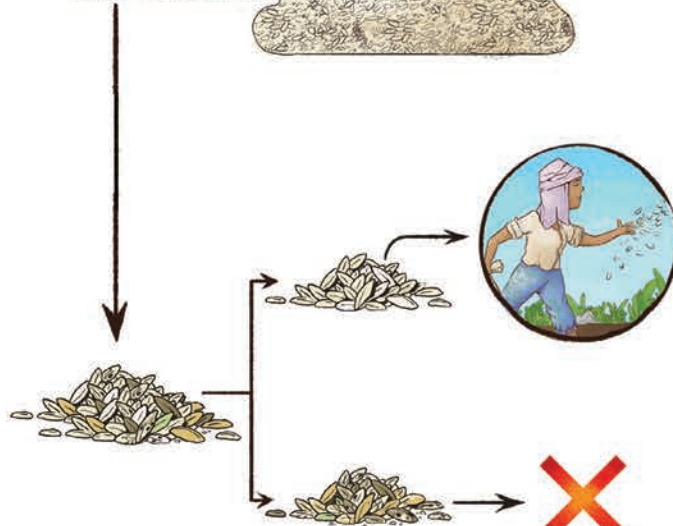
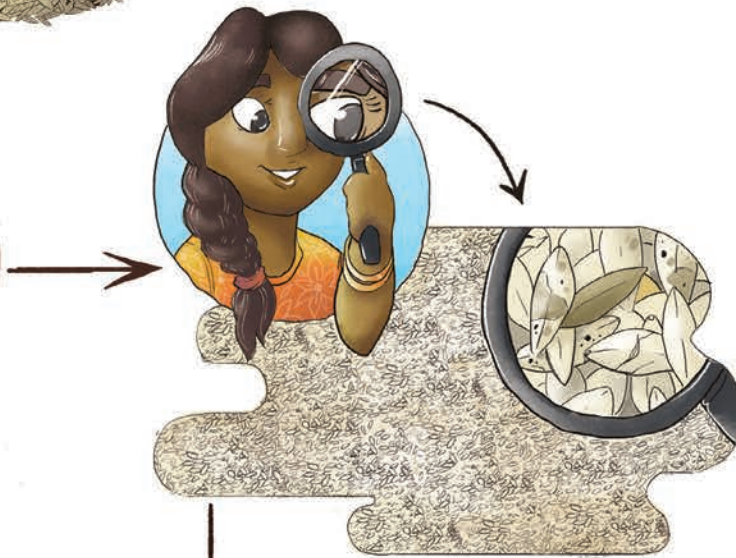
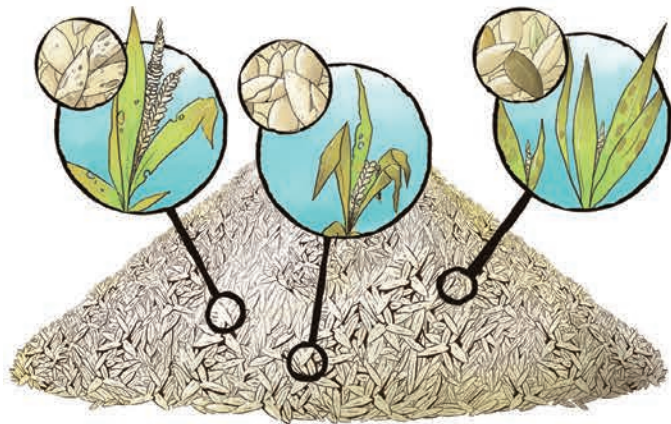


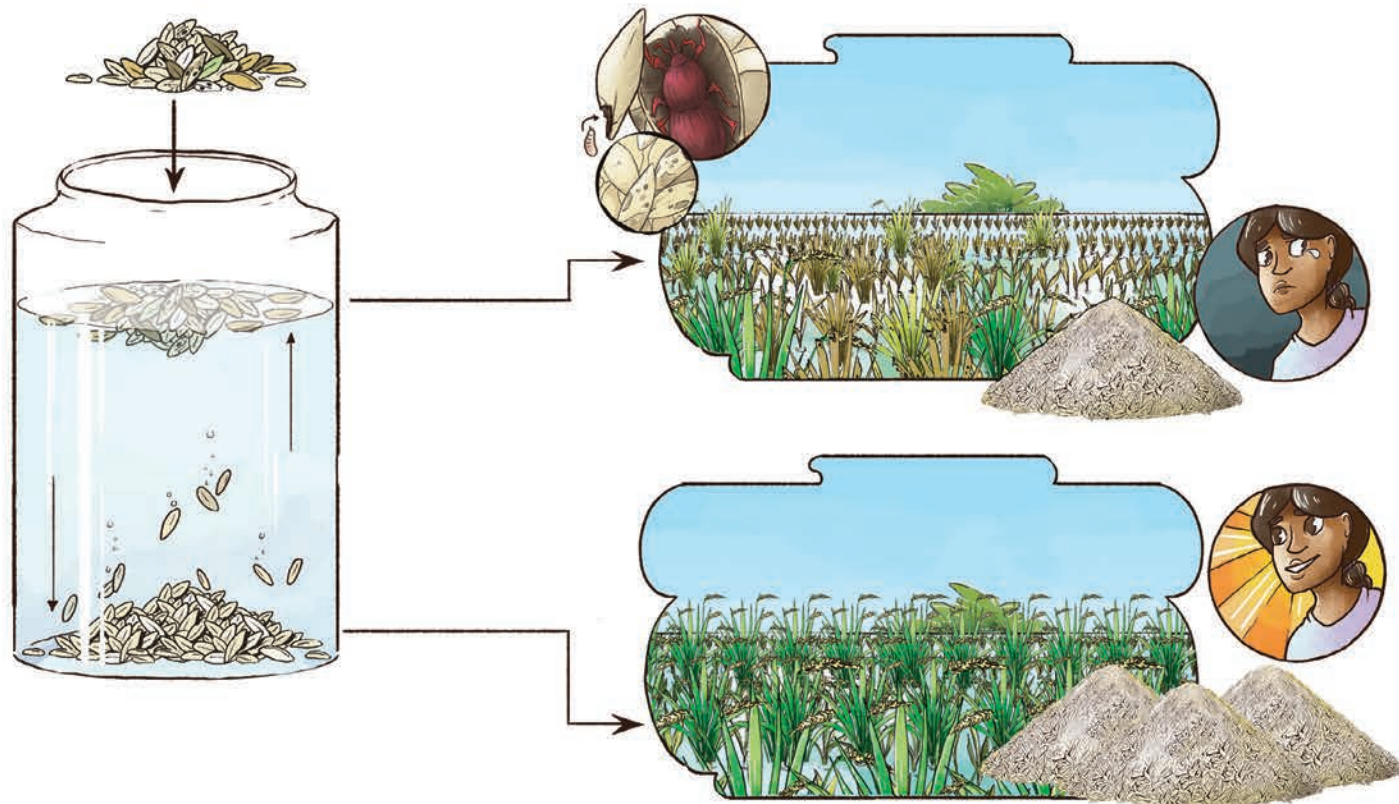
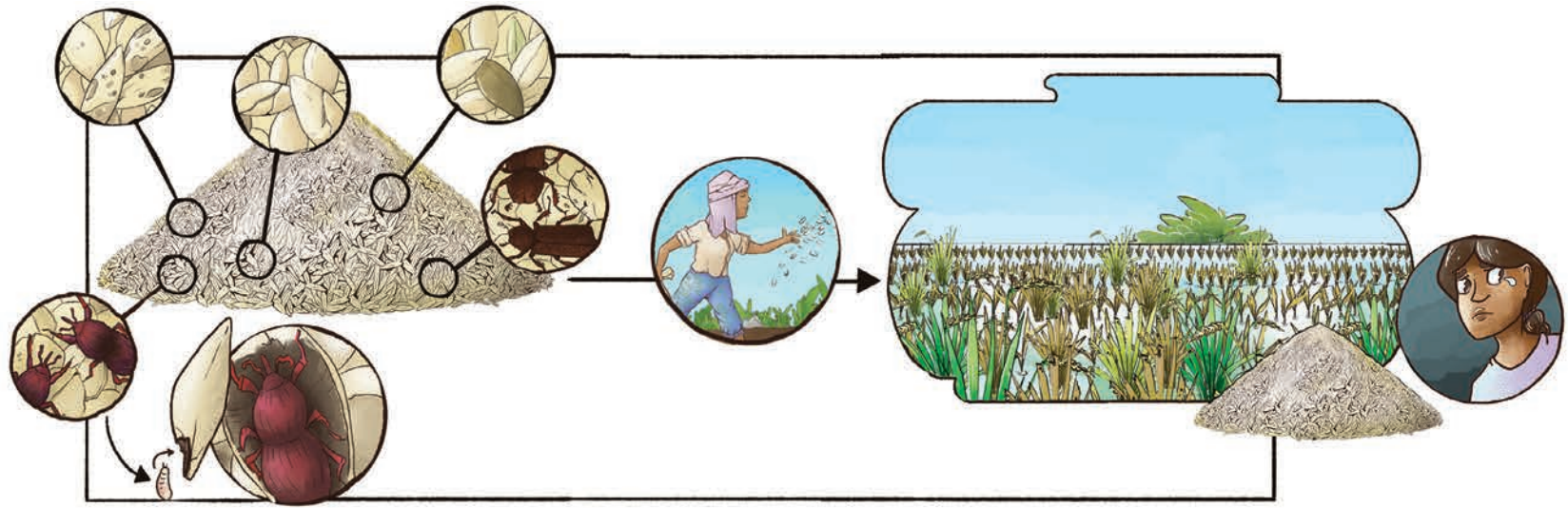


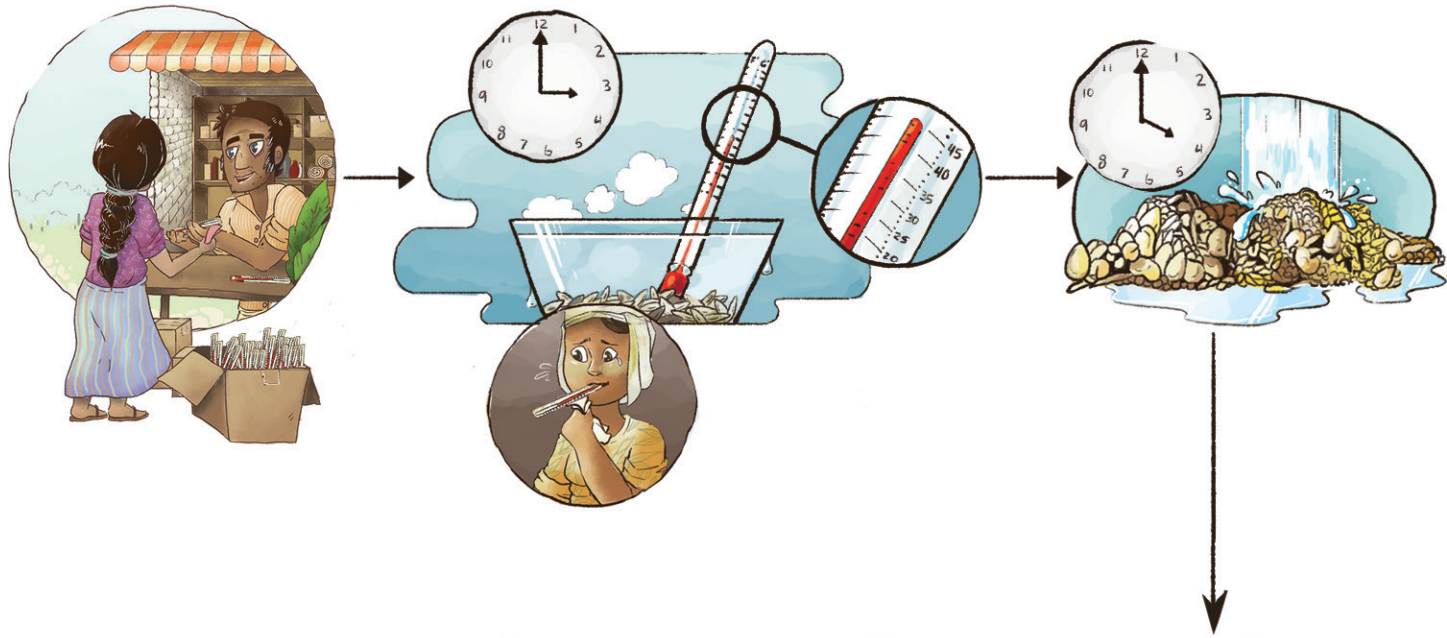
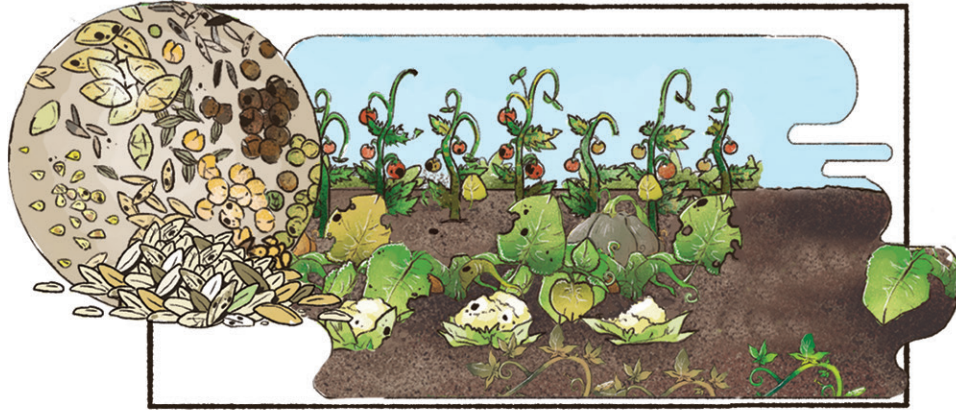
Chapter 8: Pests & Disease

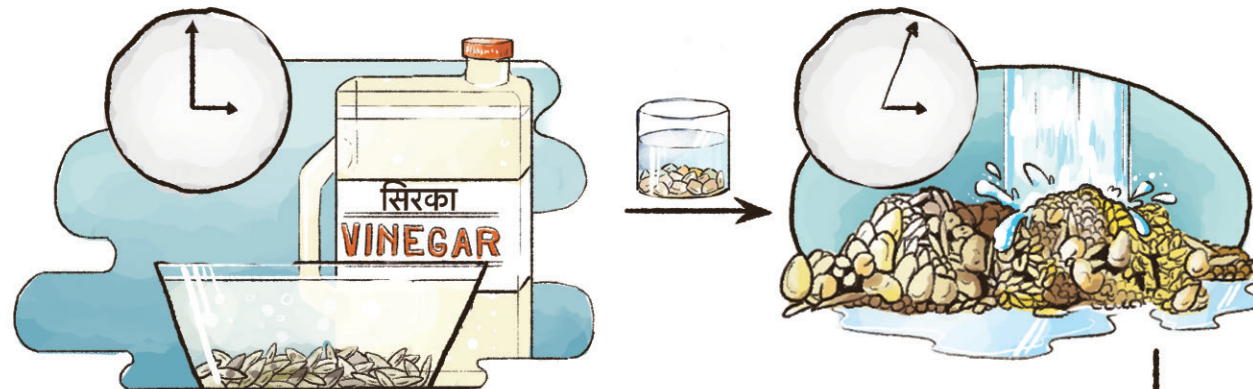
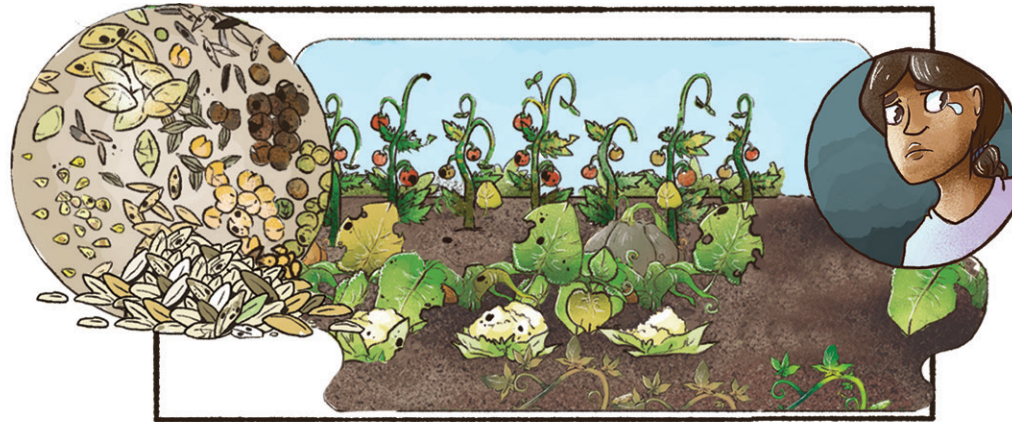


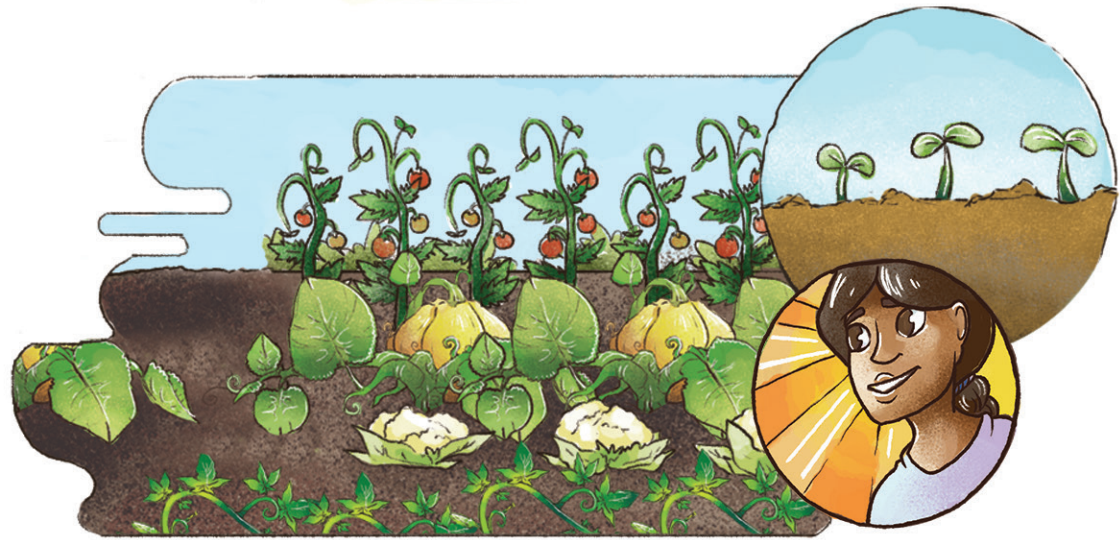
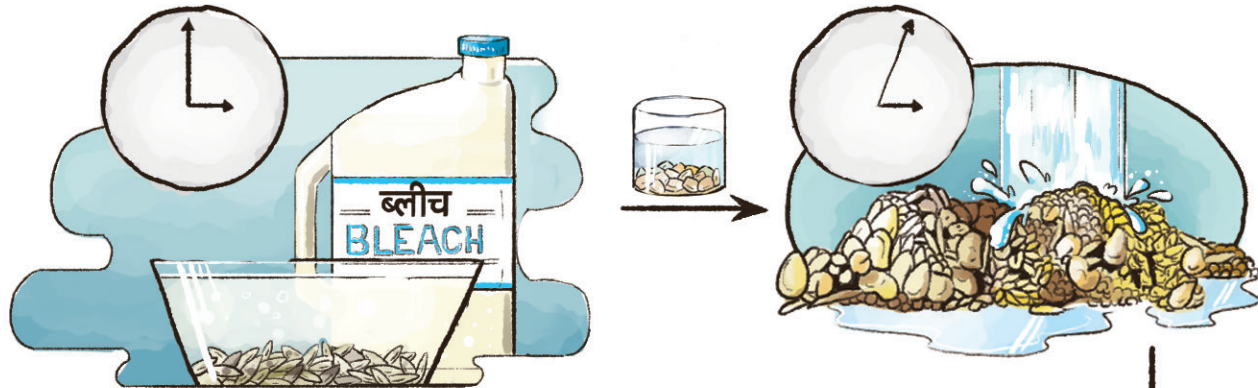
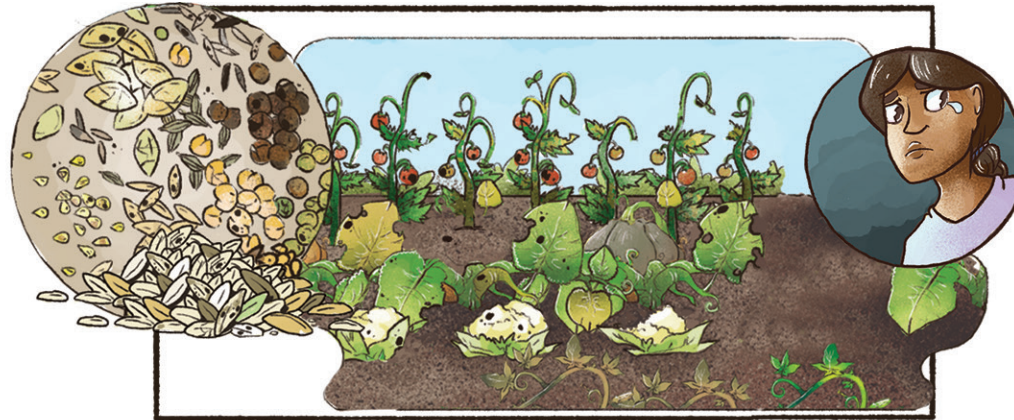


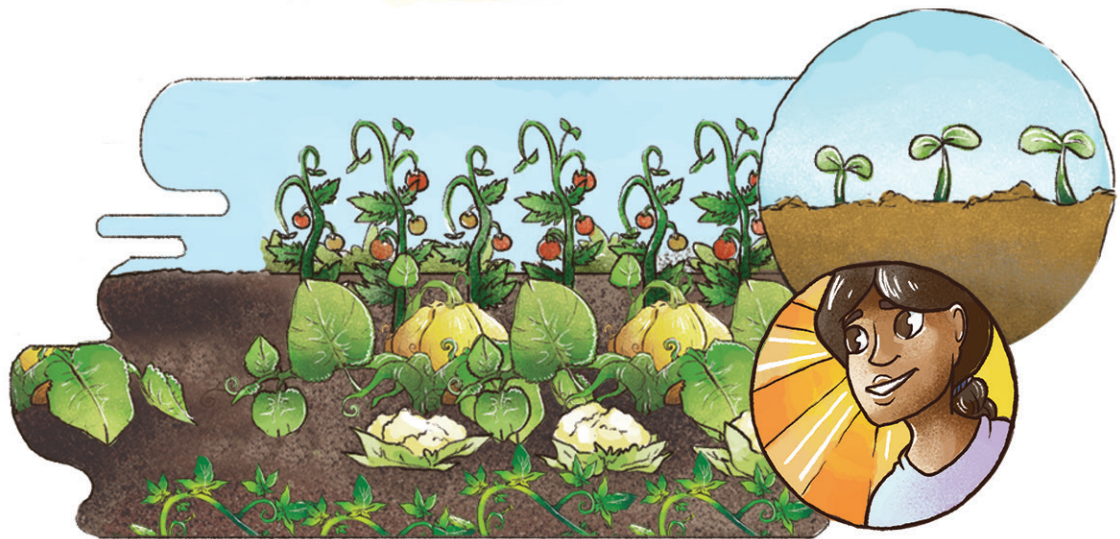
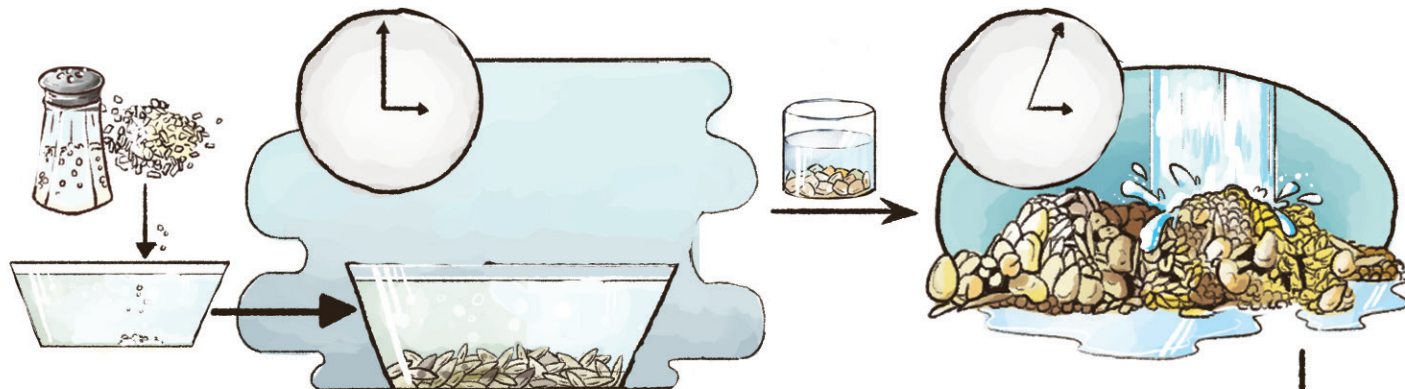
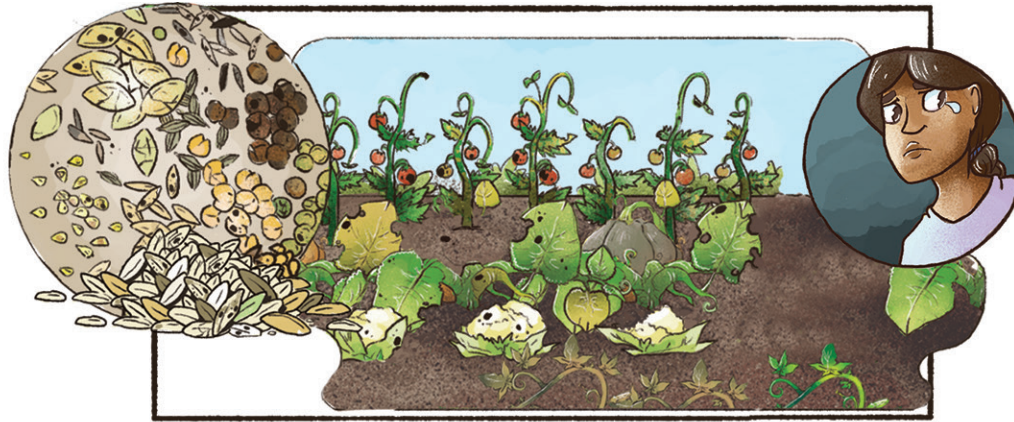


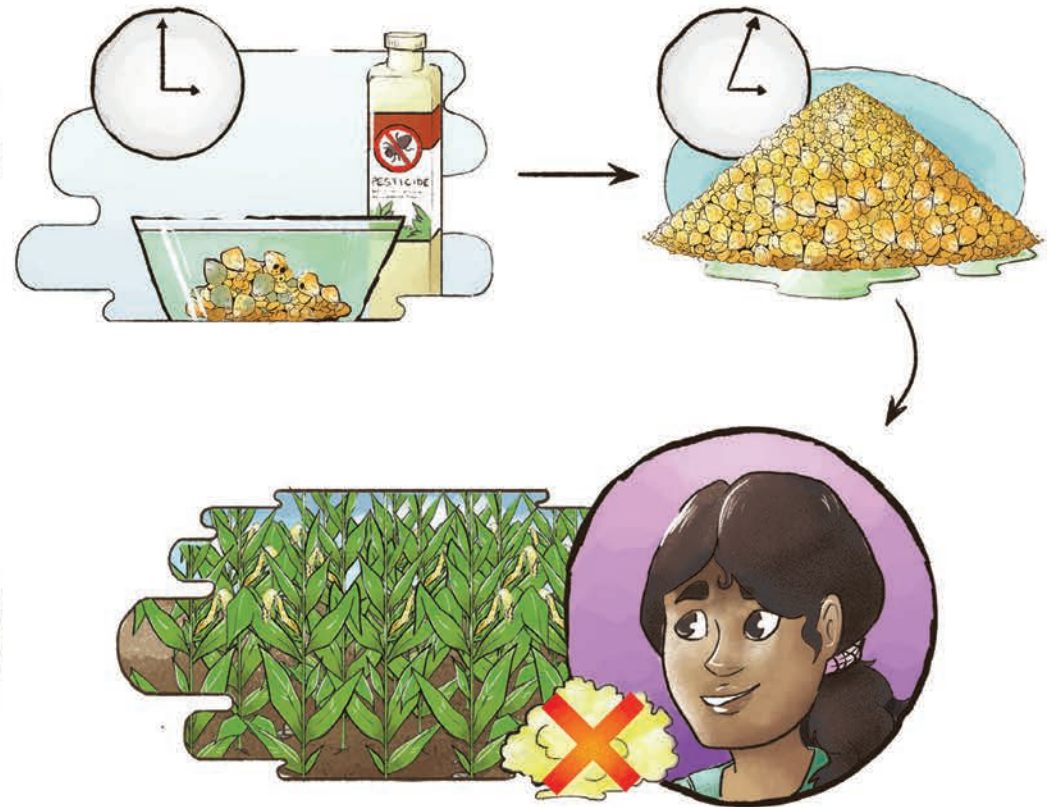
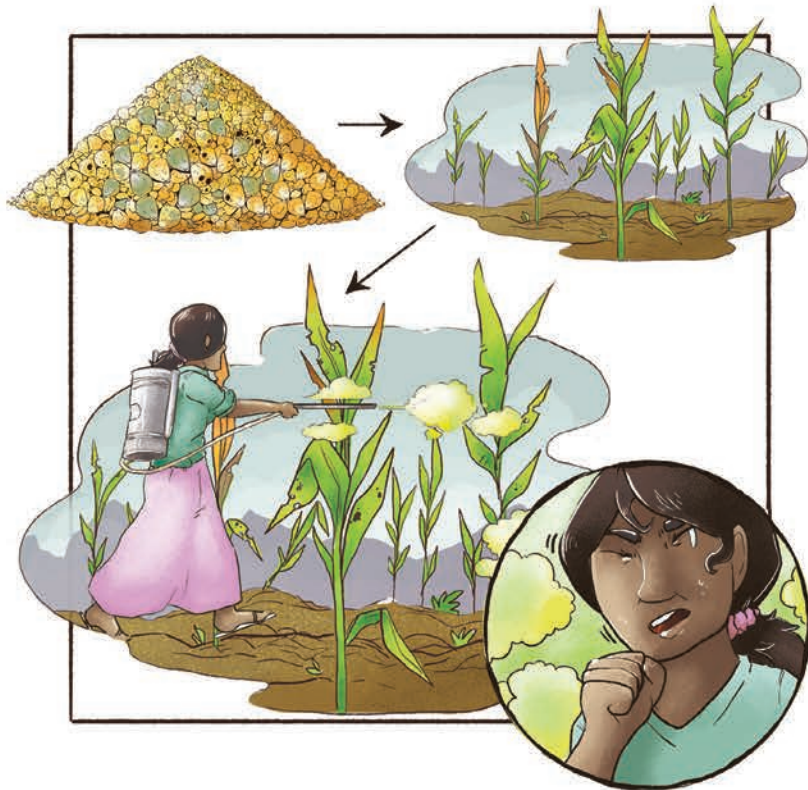


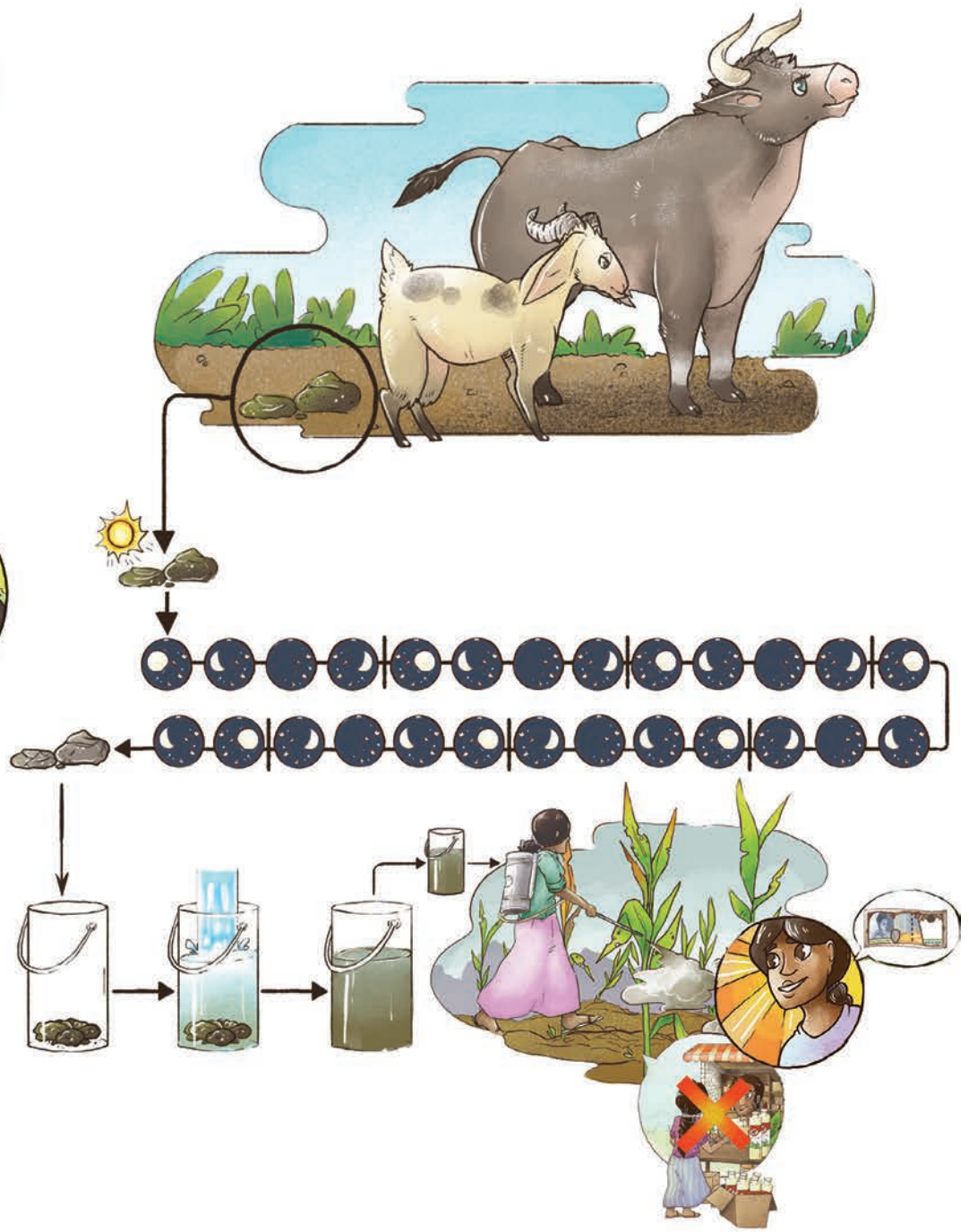
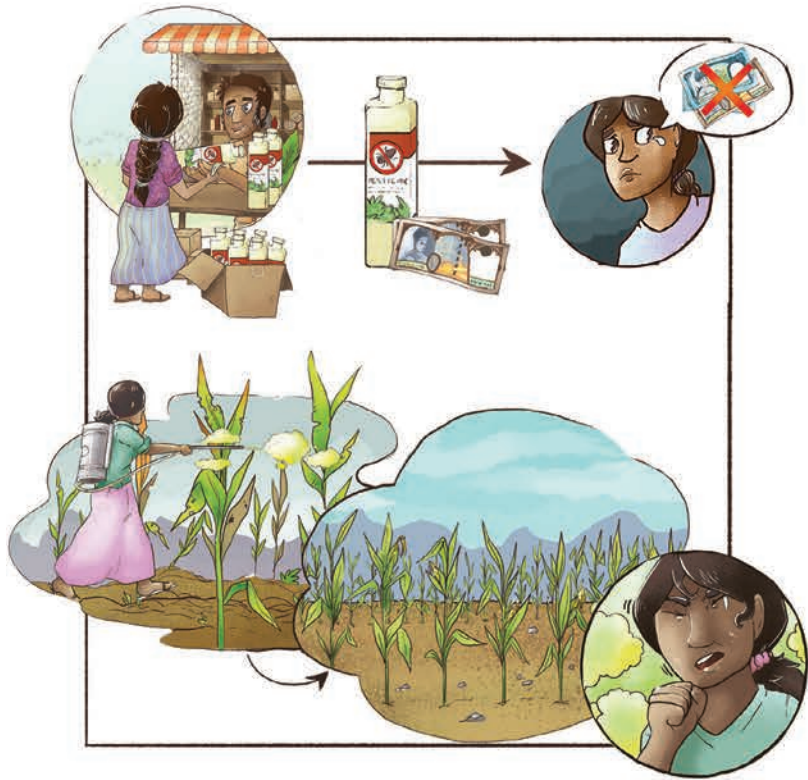


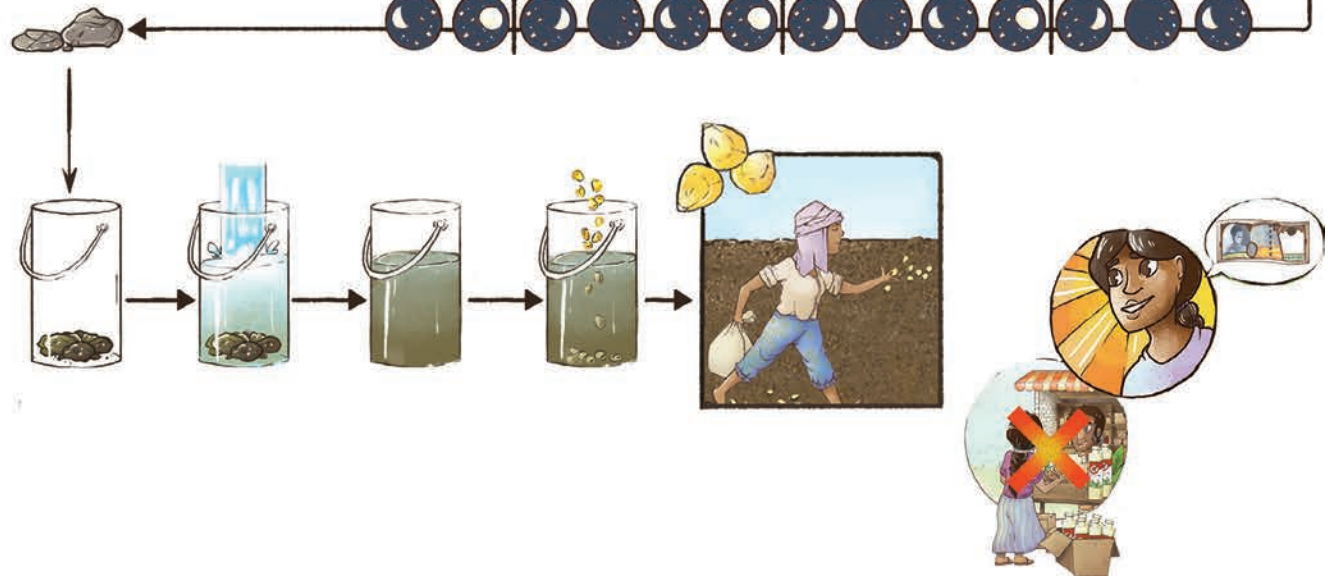
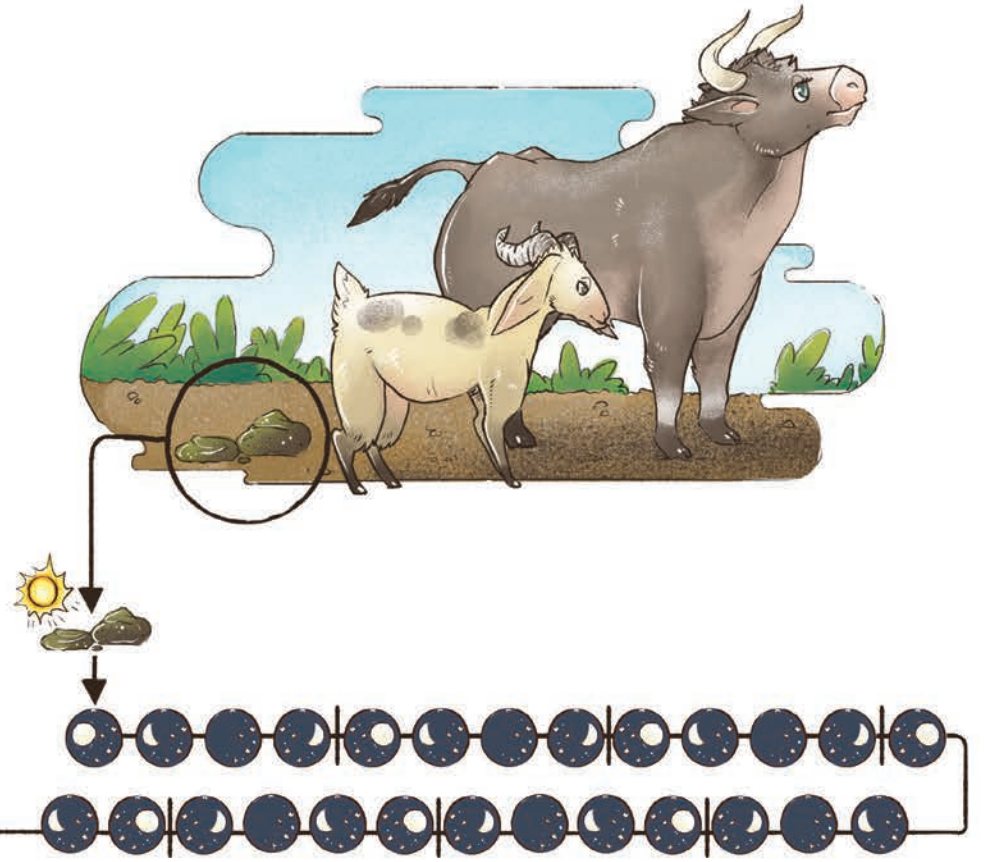
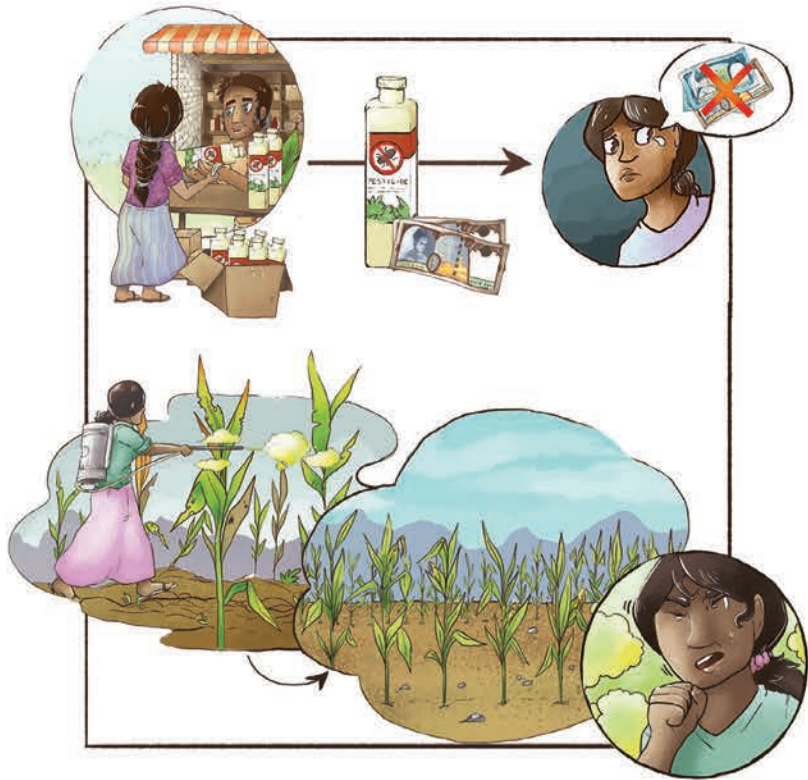


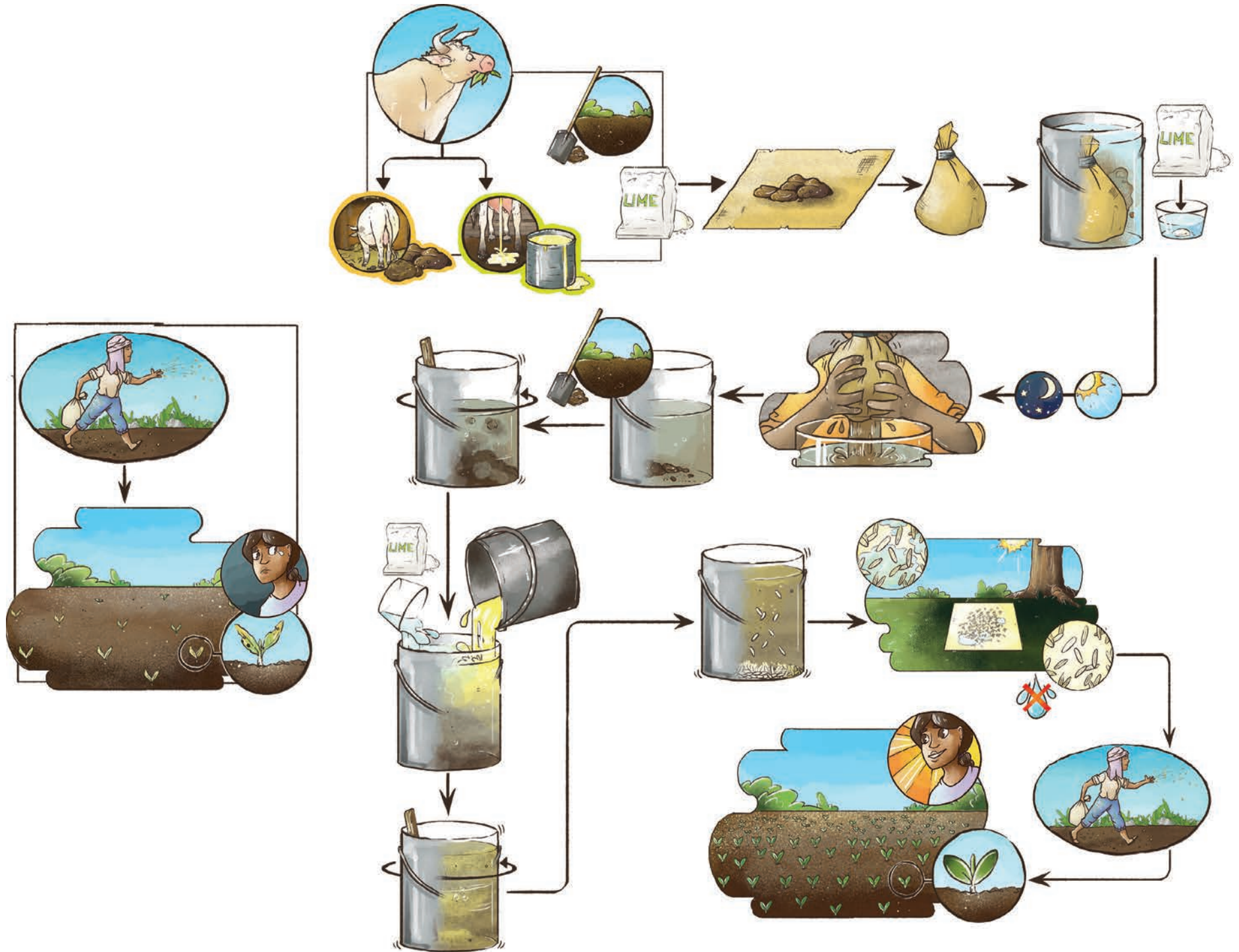


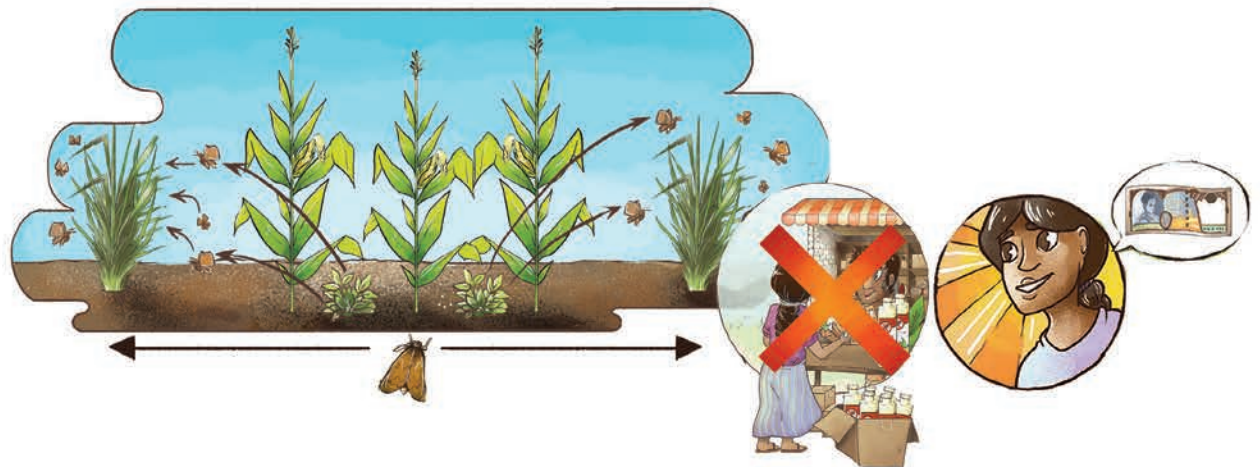
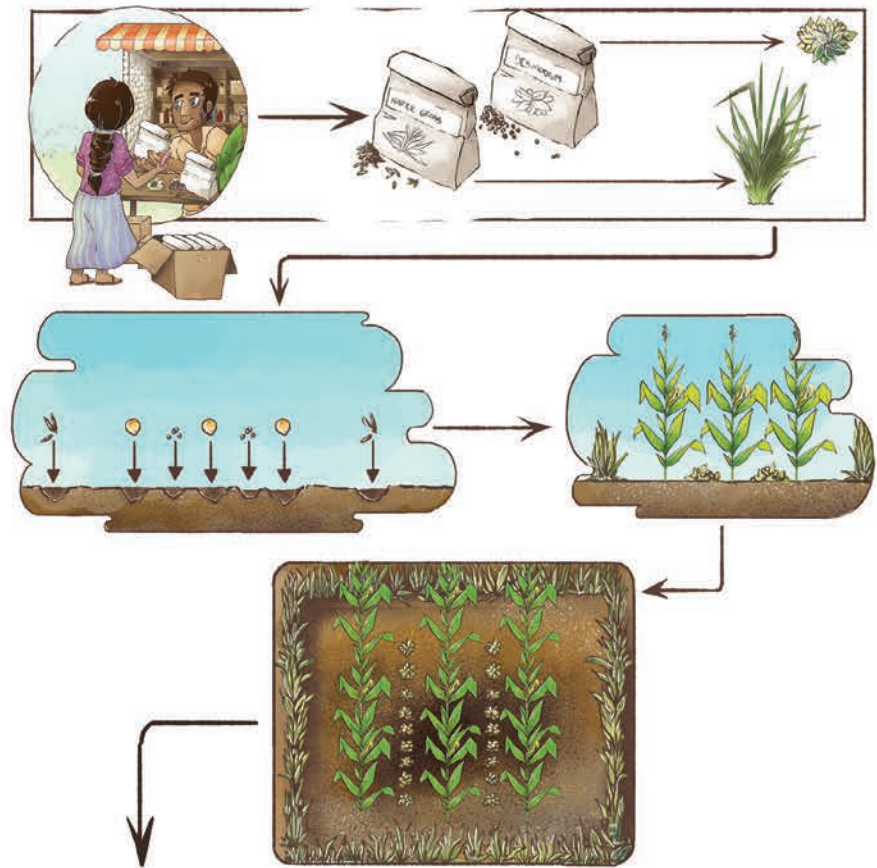


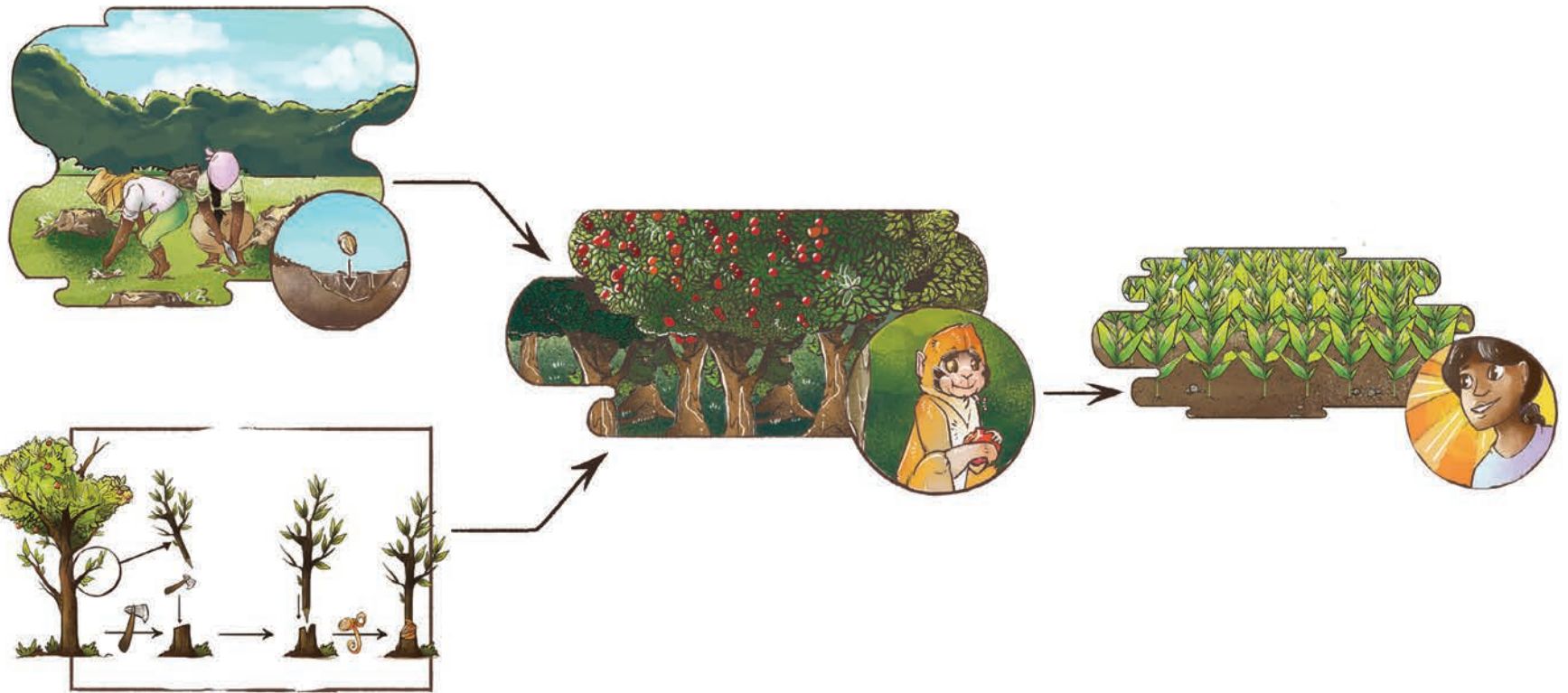




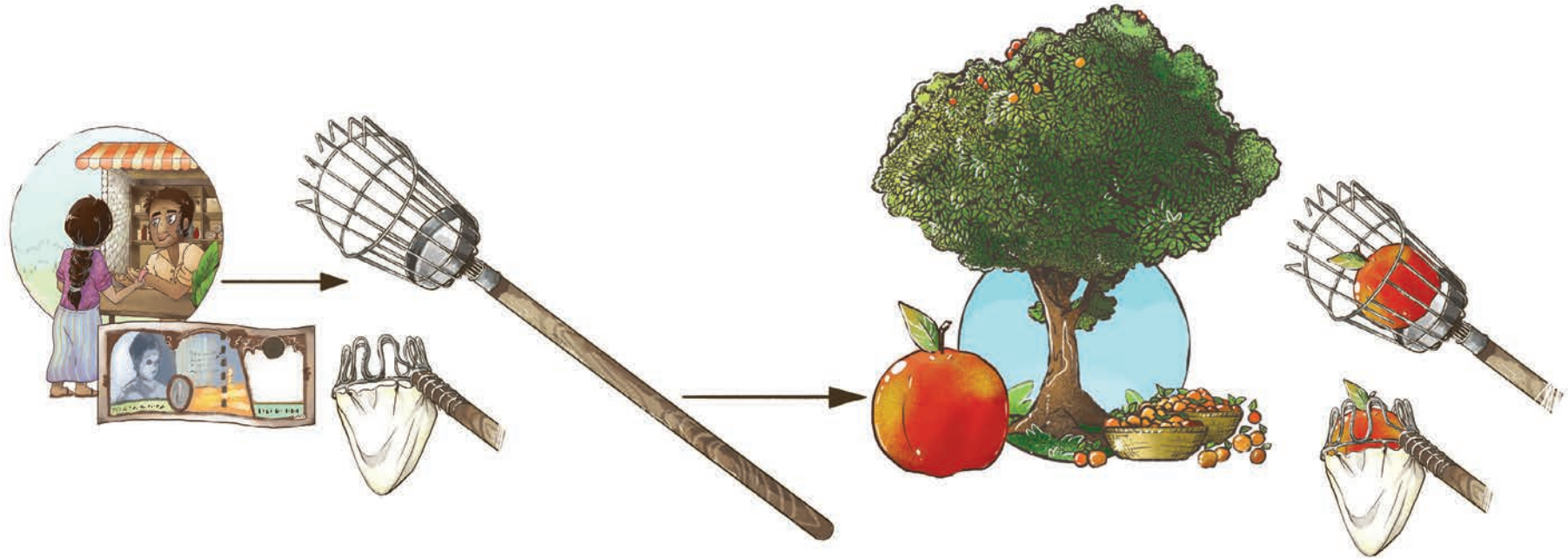
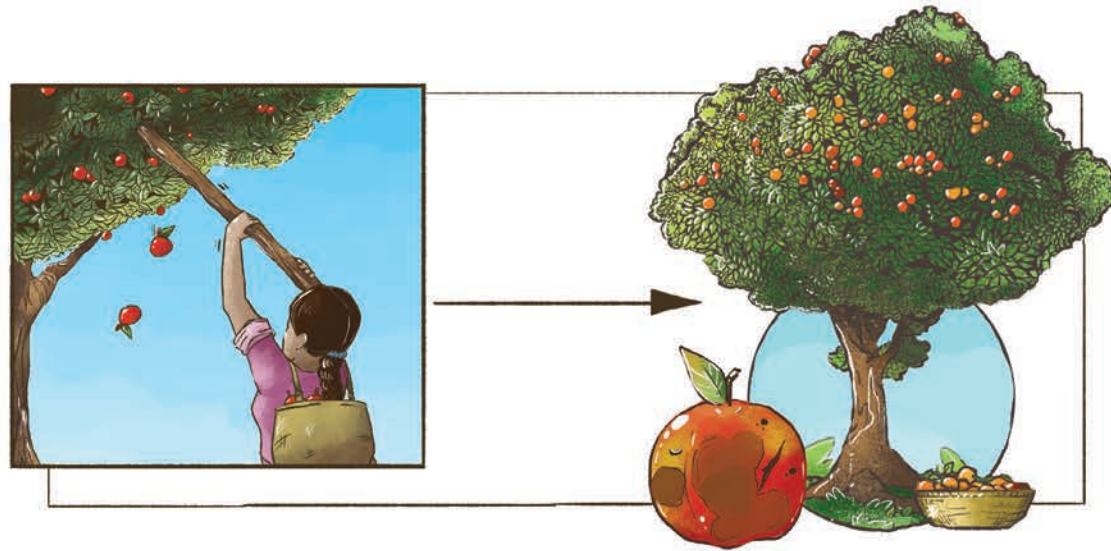


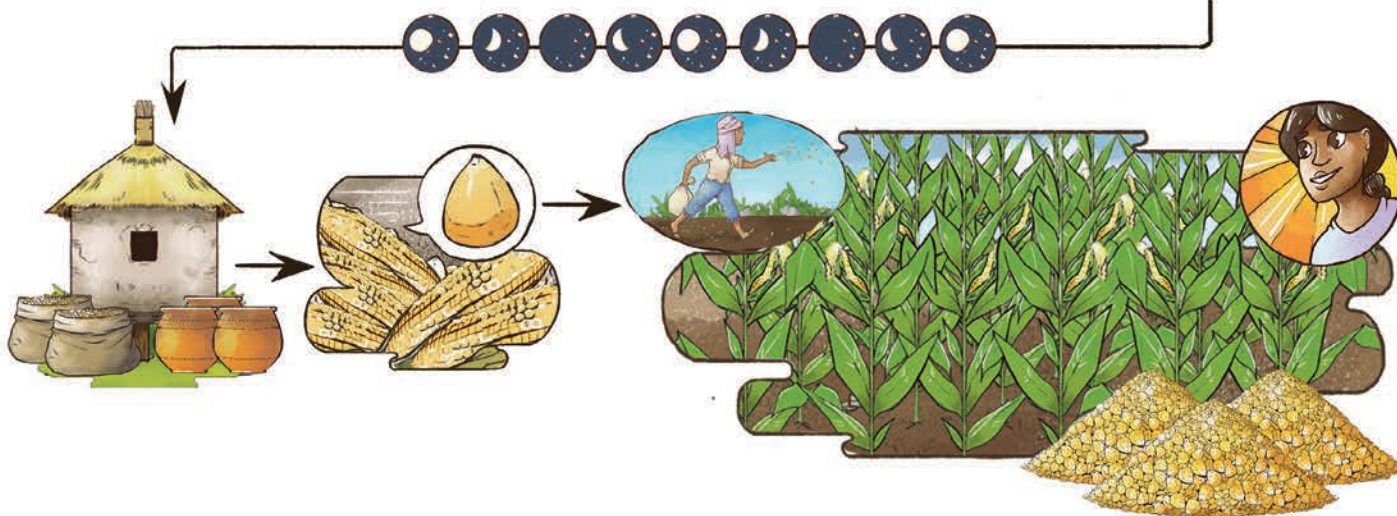
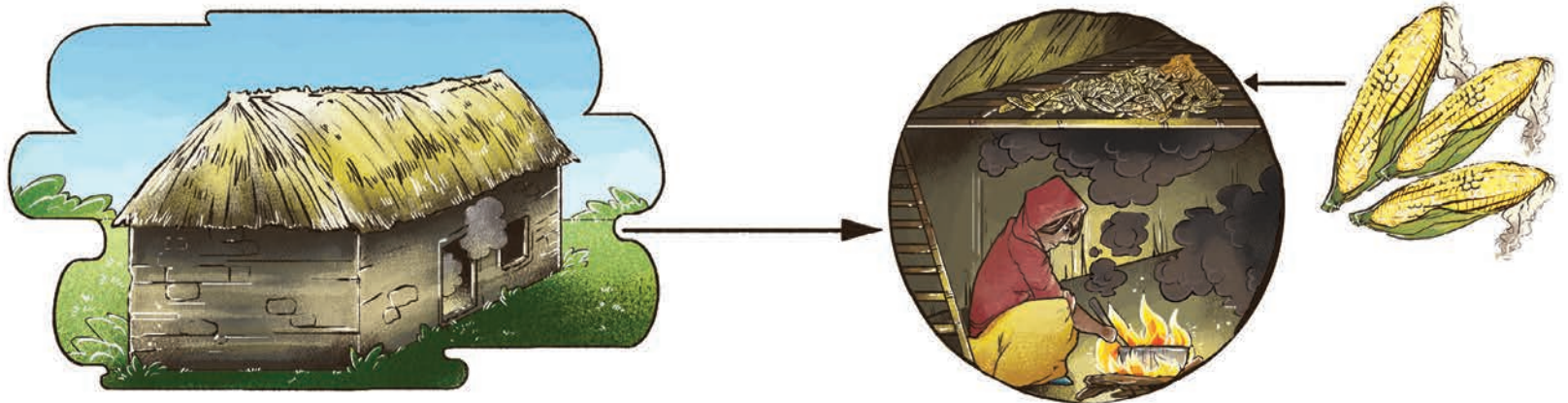
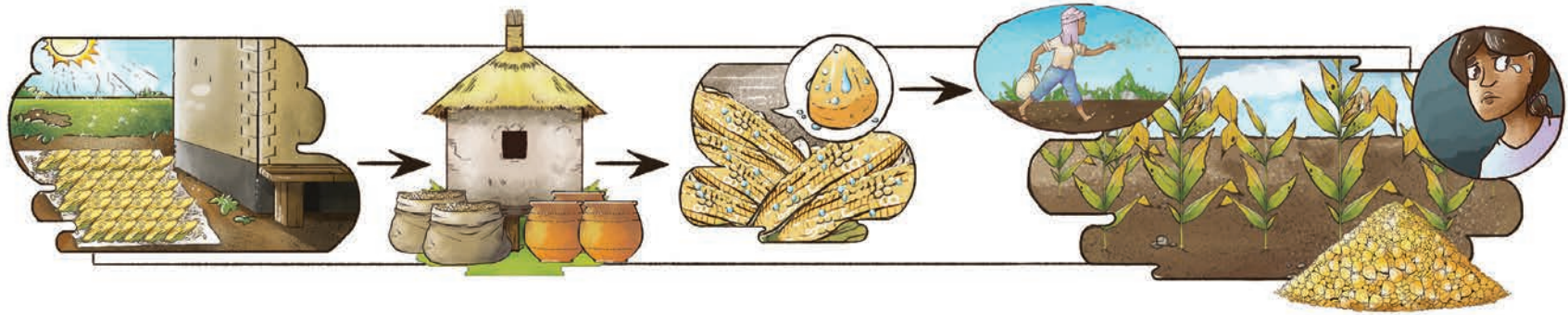


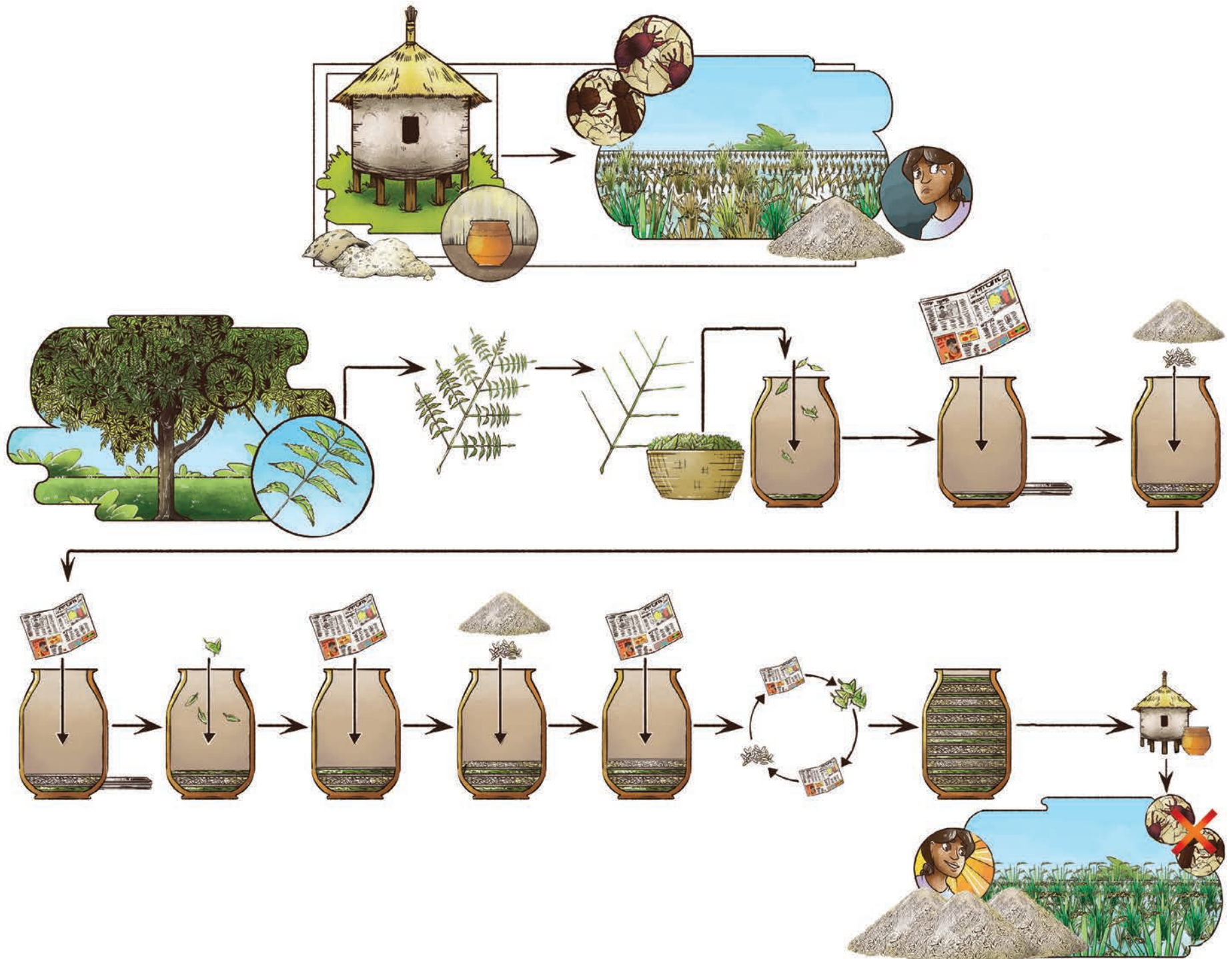


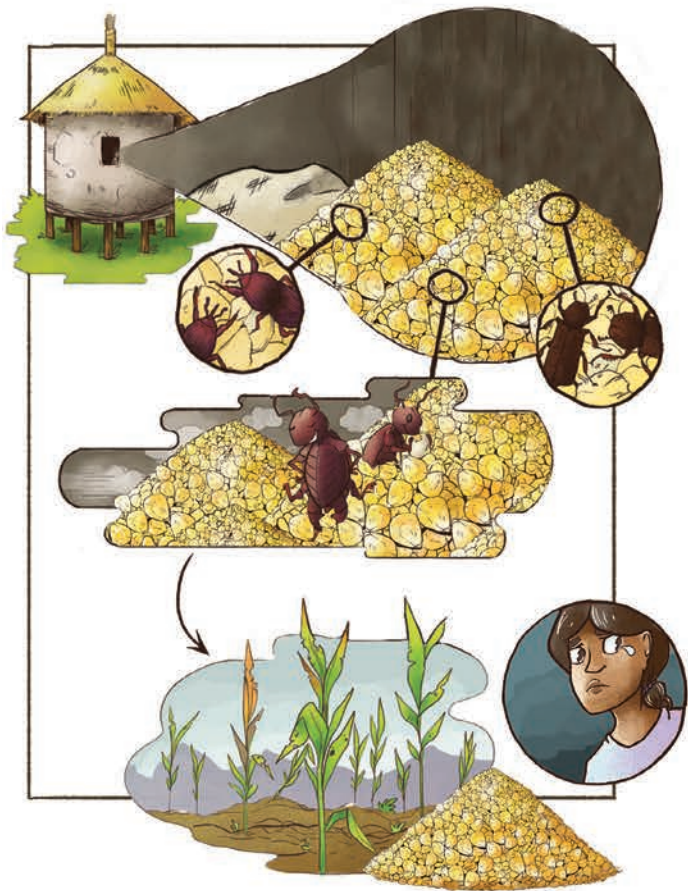


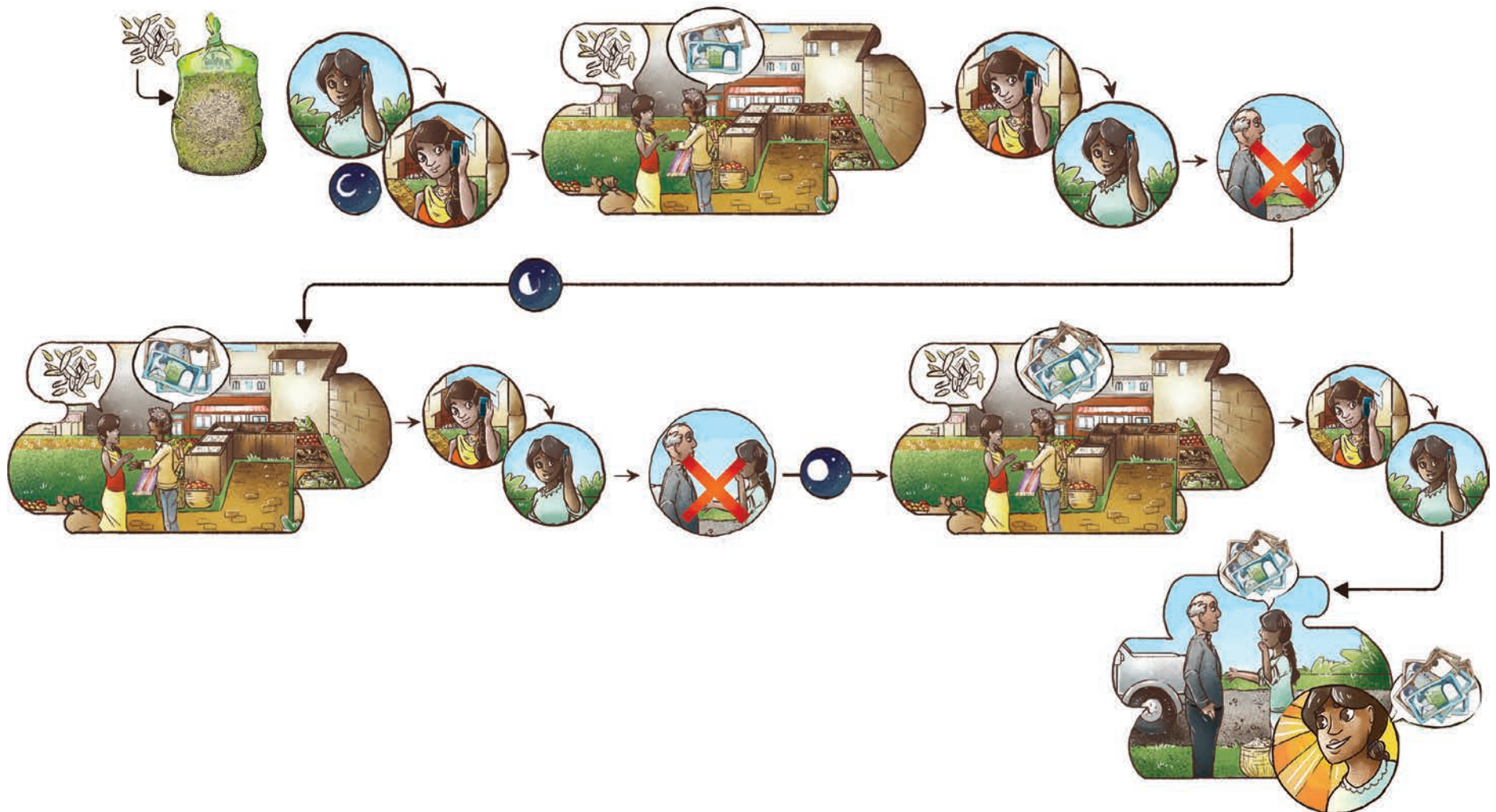
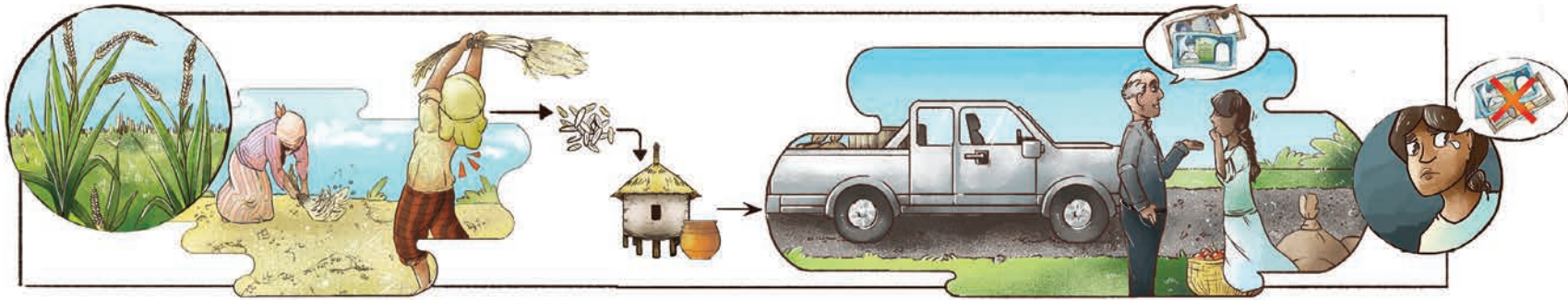
Chapter 9: Post-Harvest

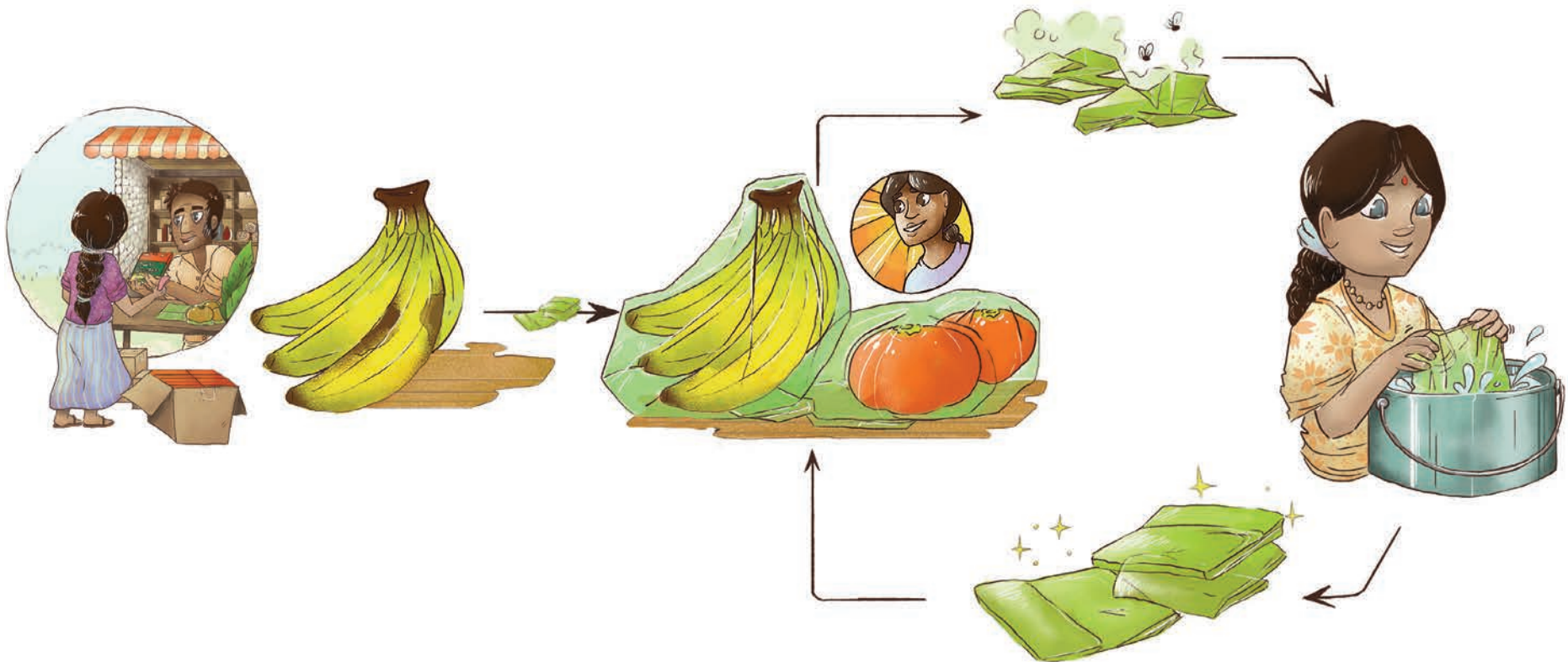


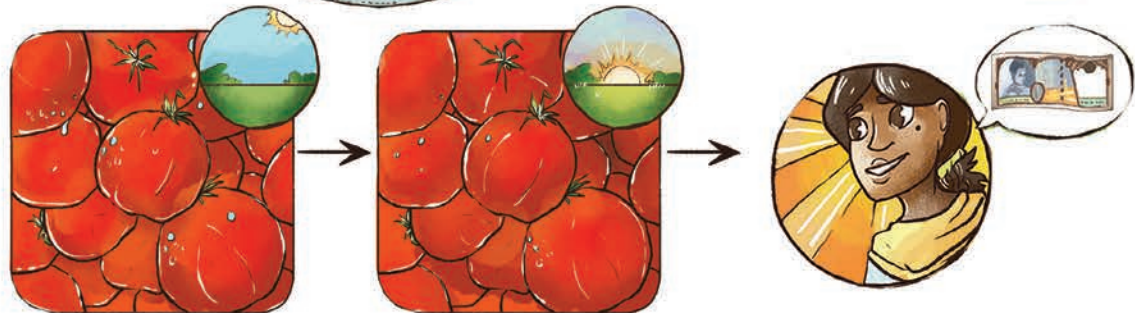
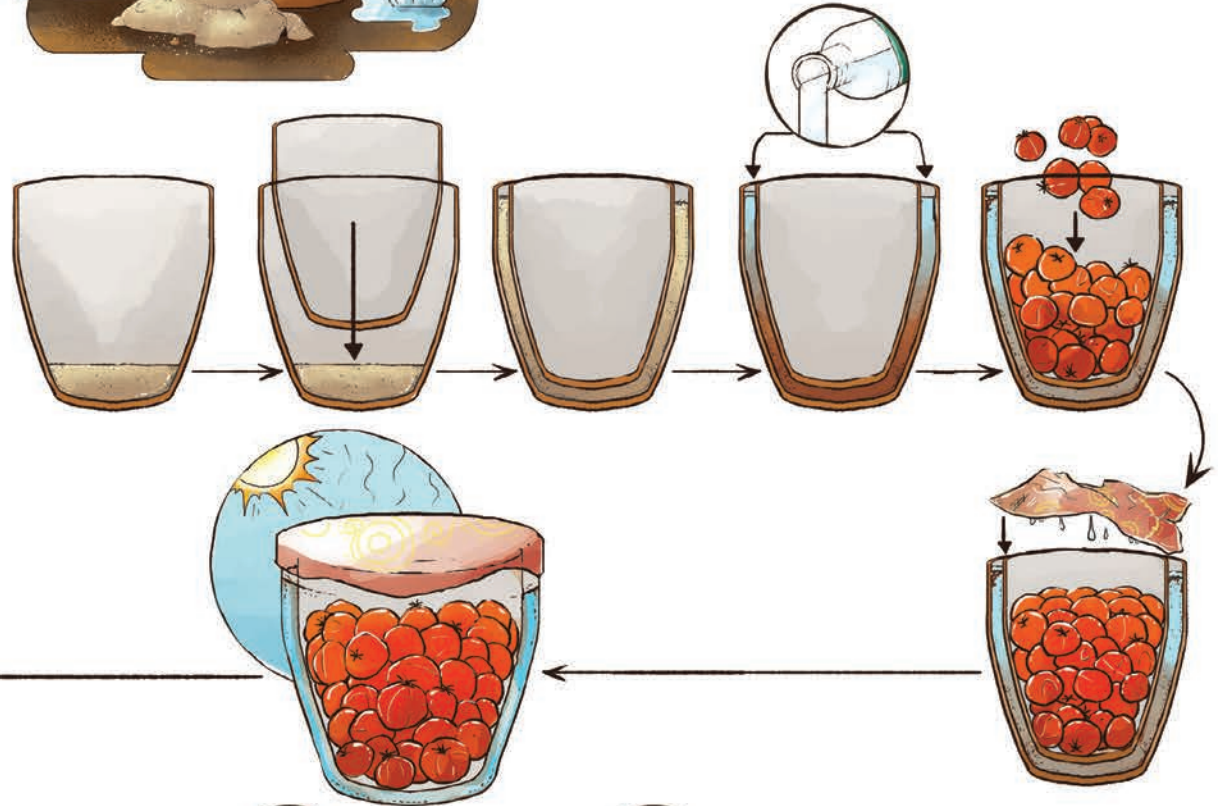
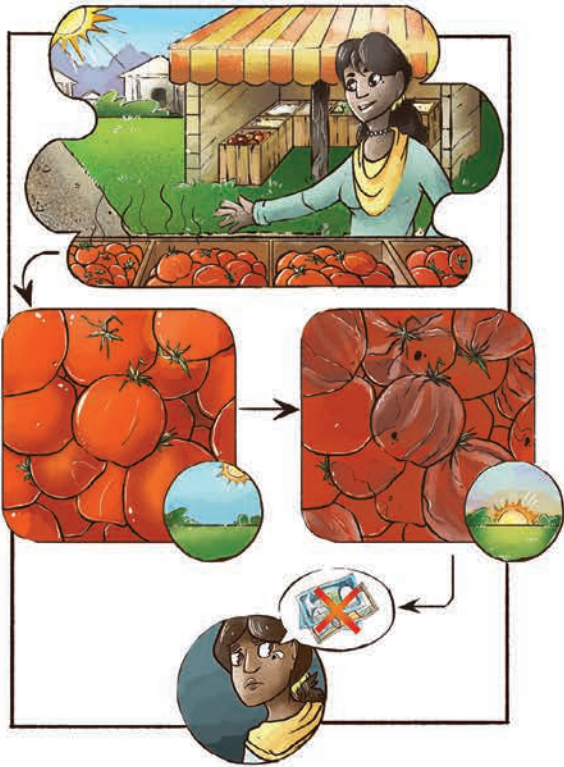


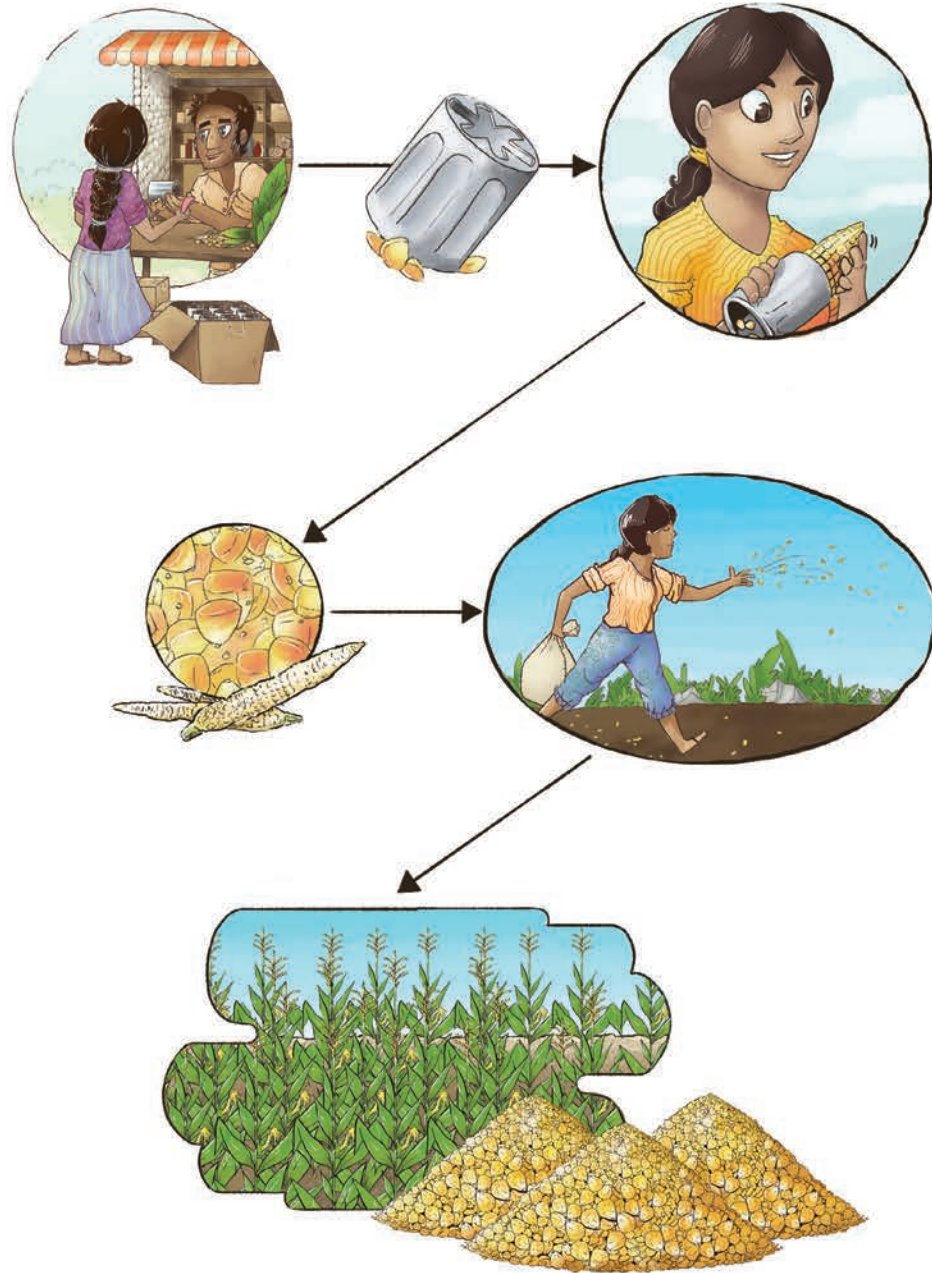
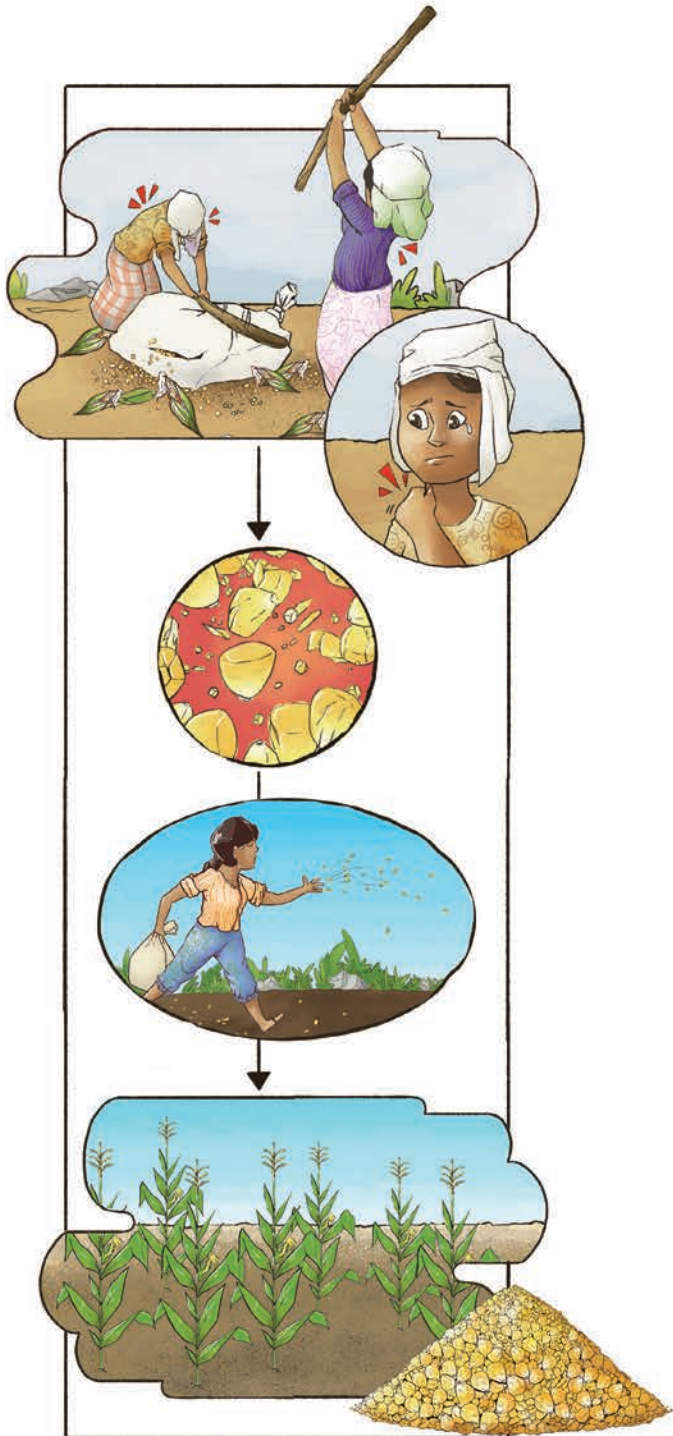


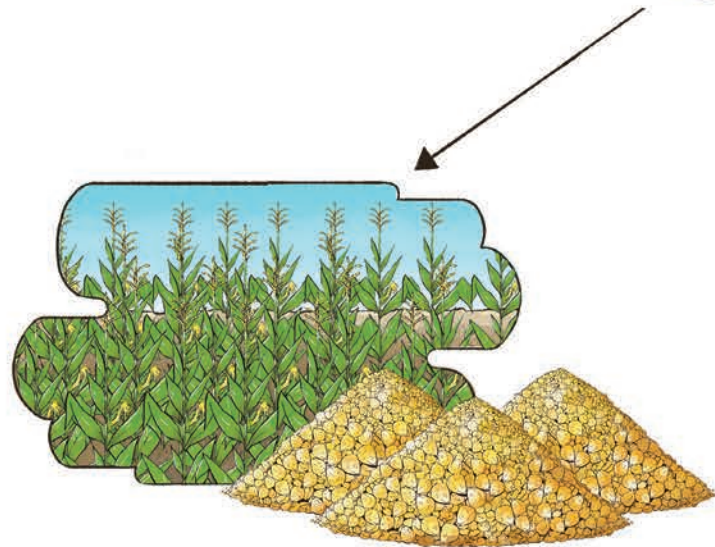
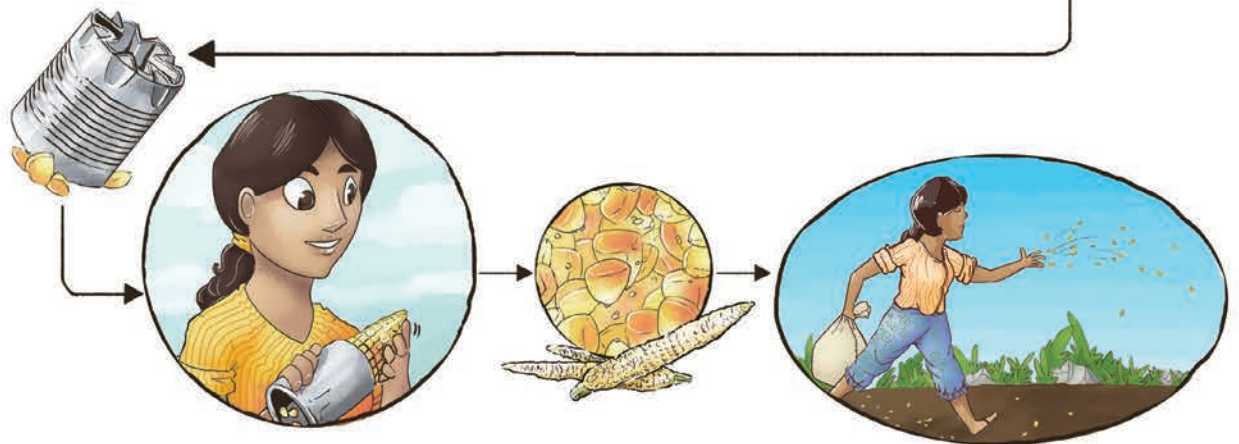
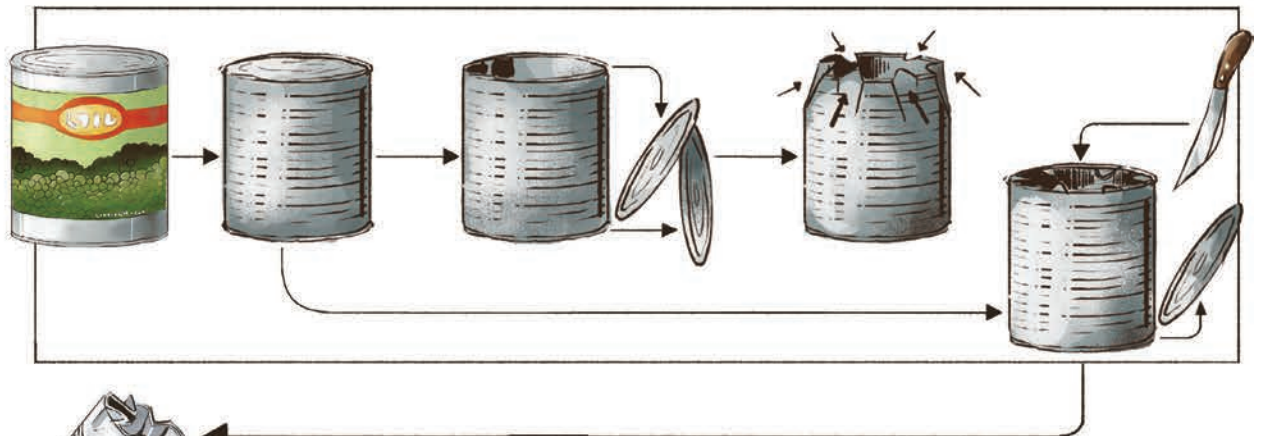
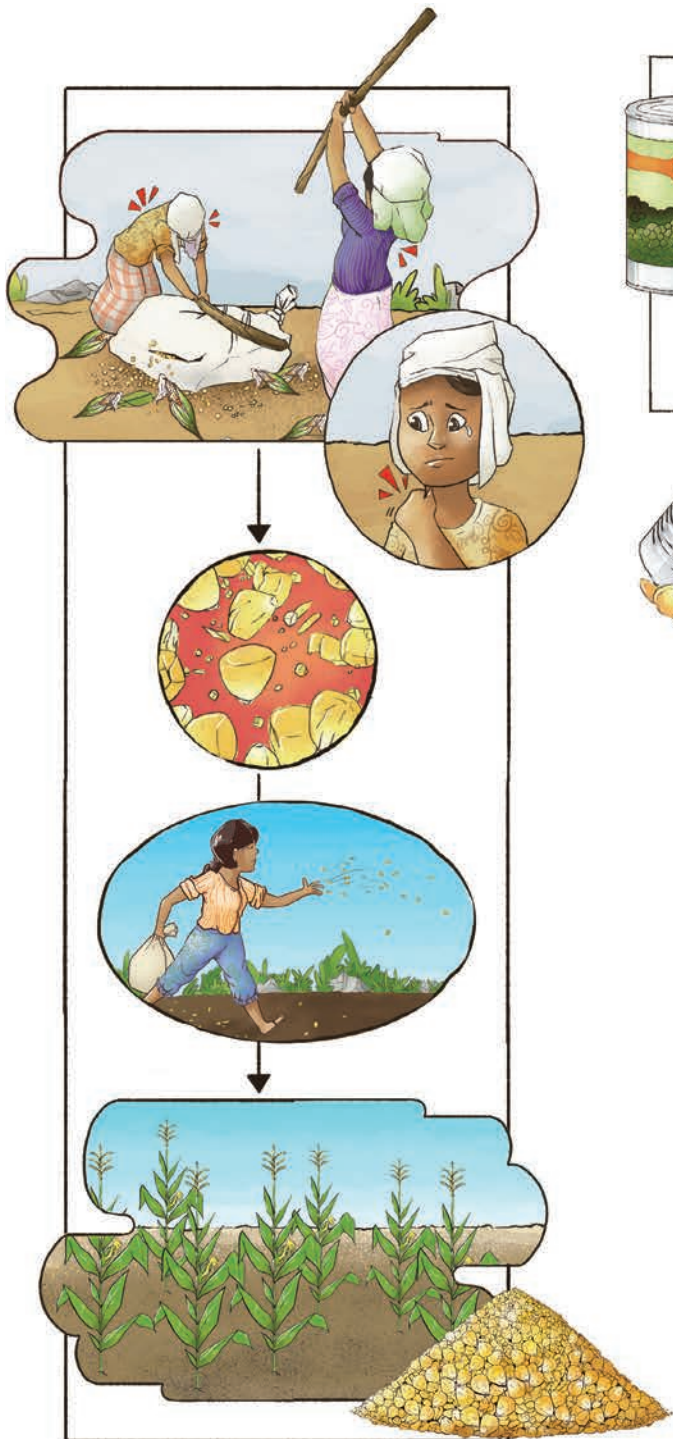


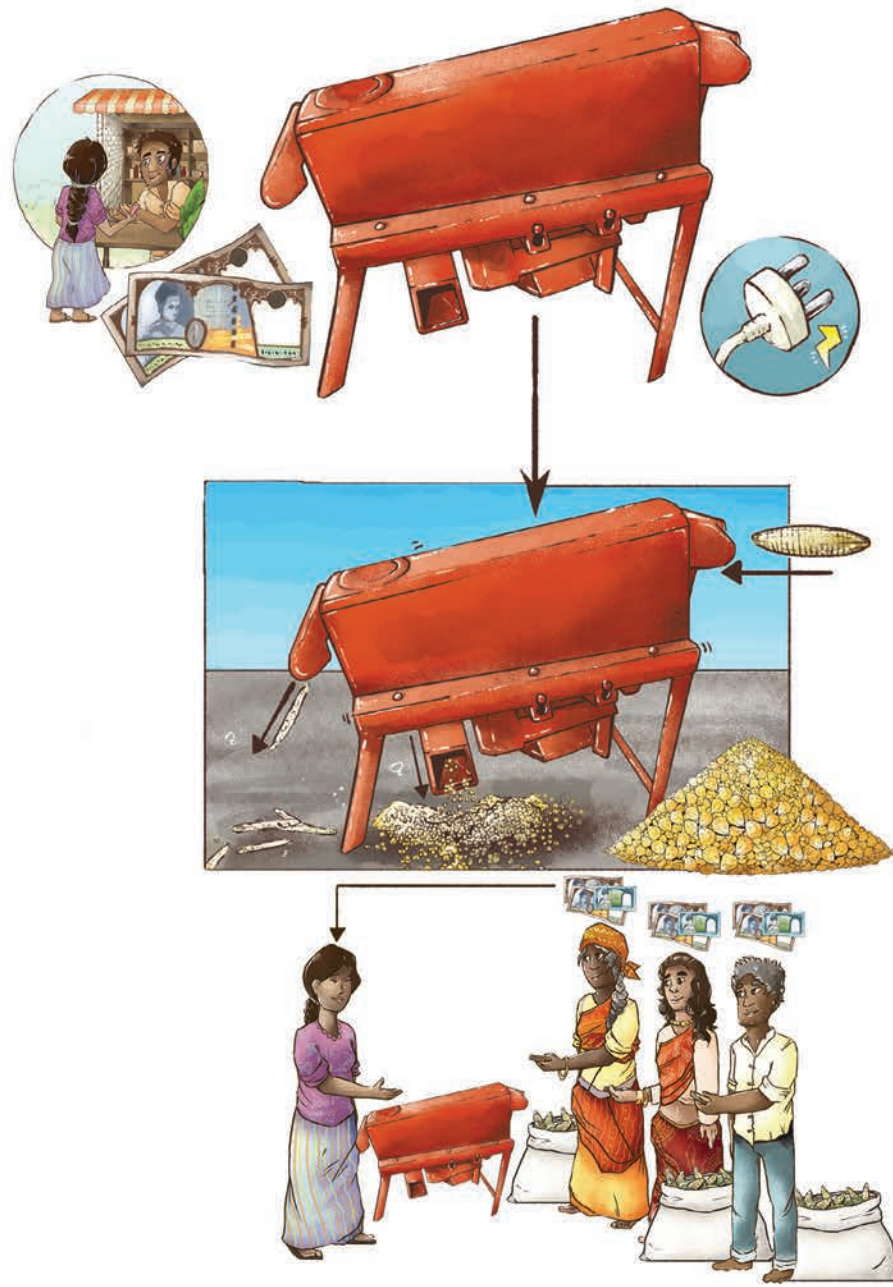
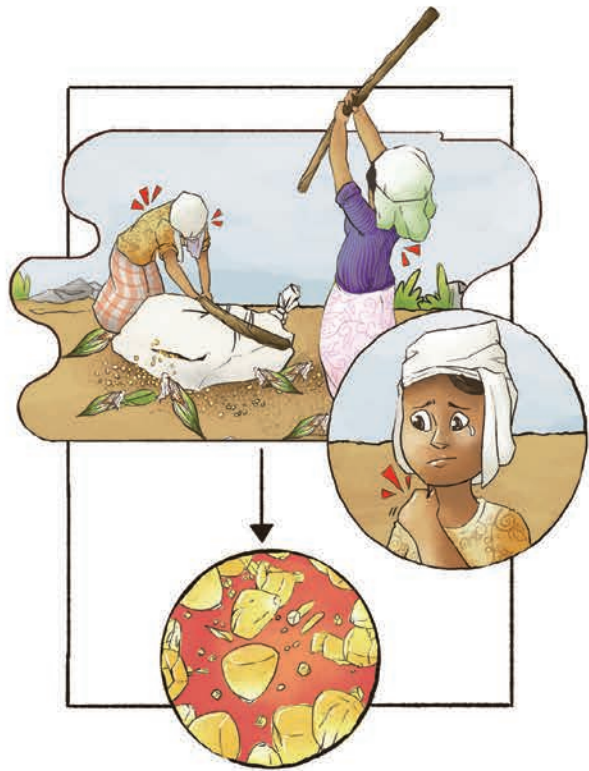


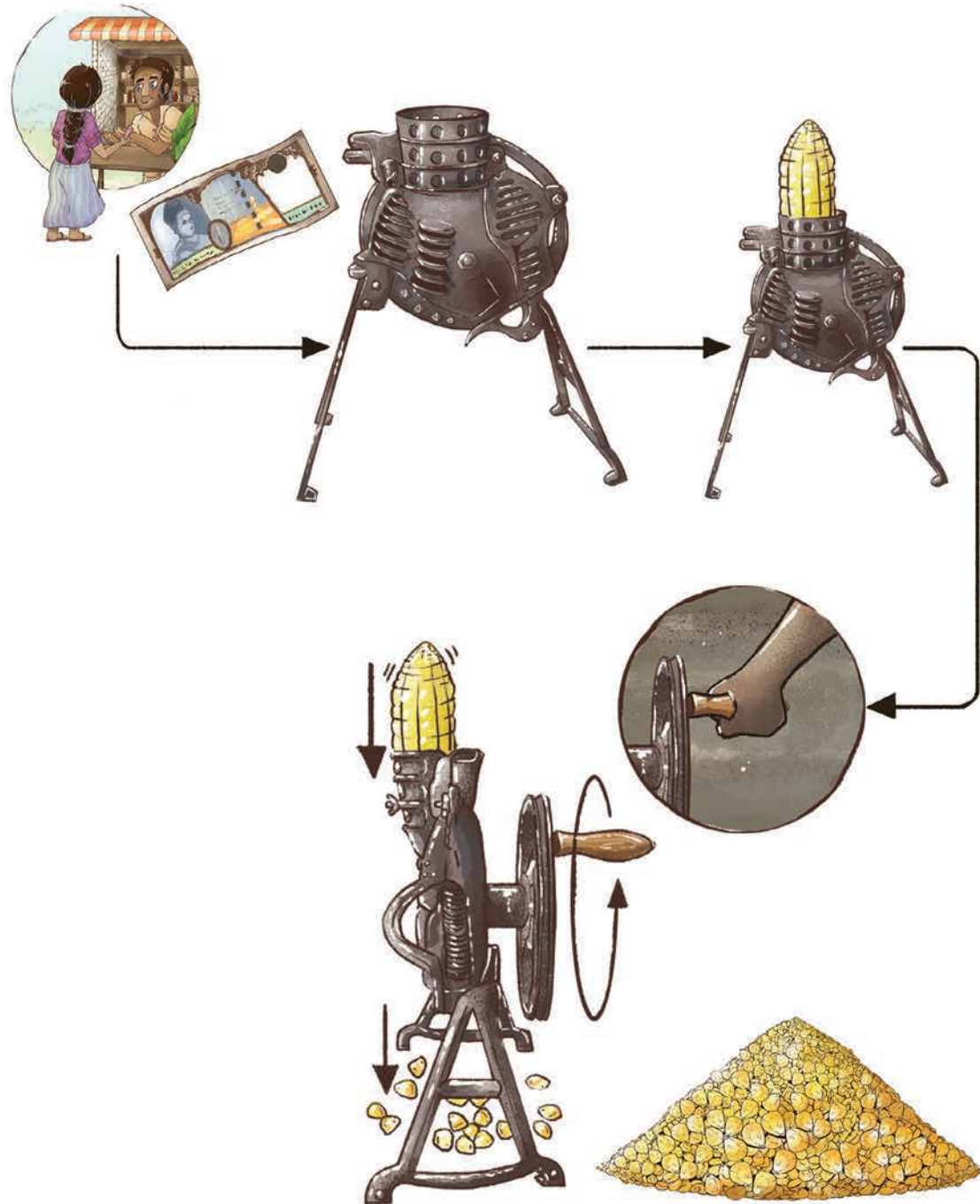
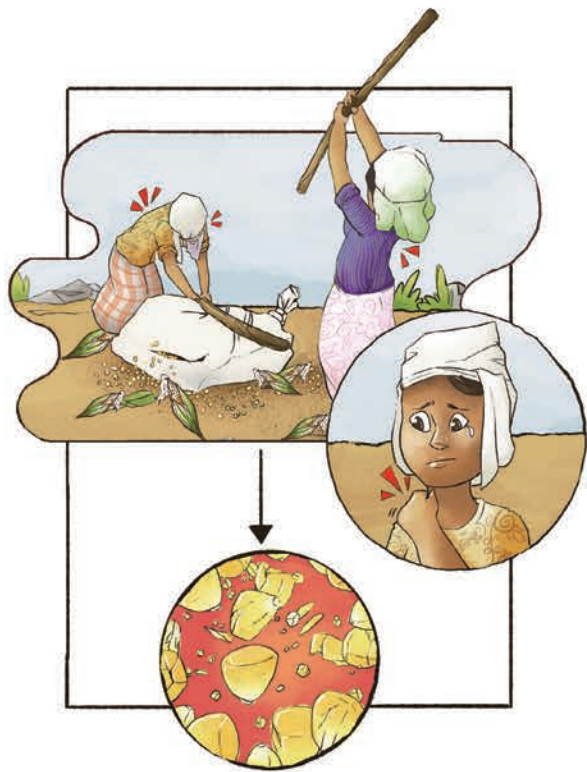


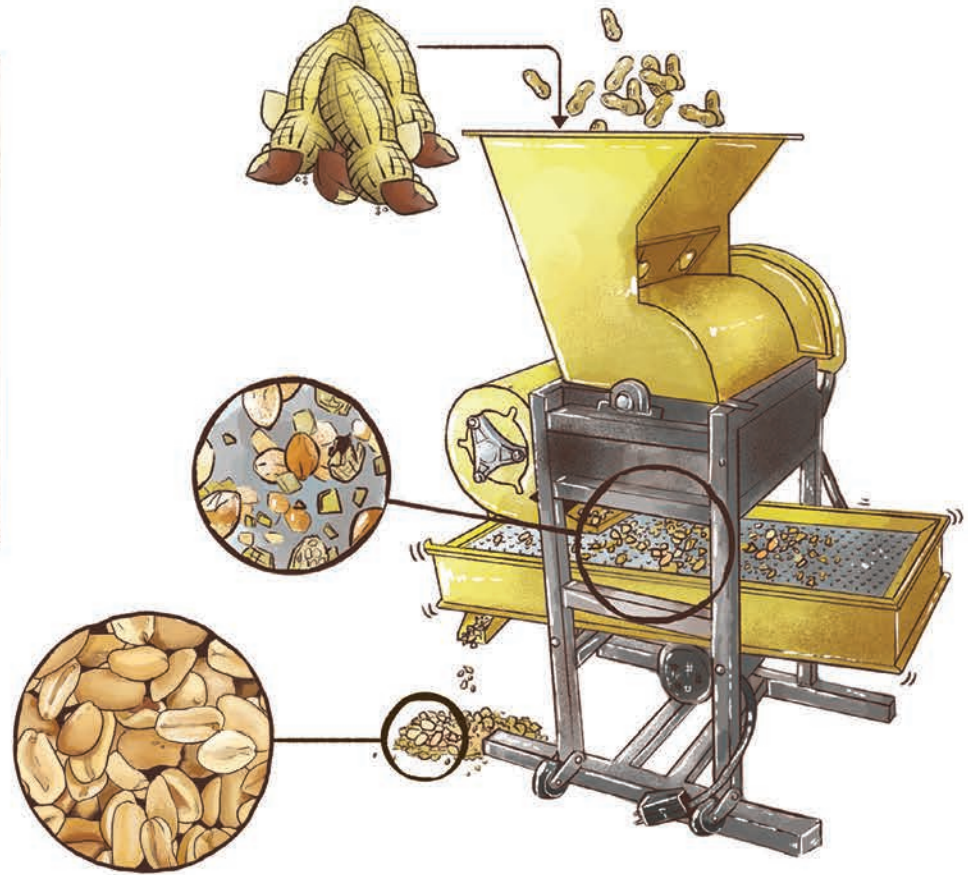
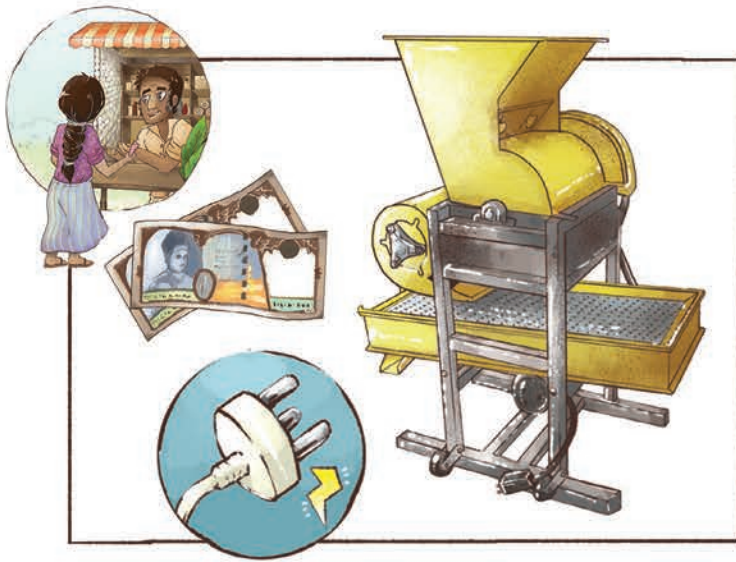




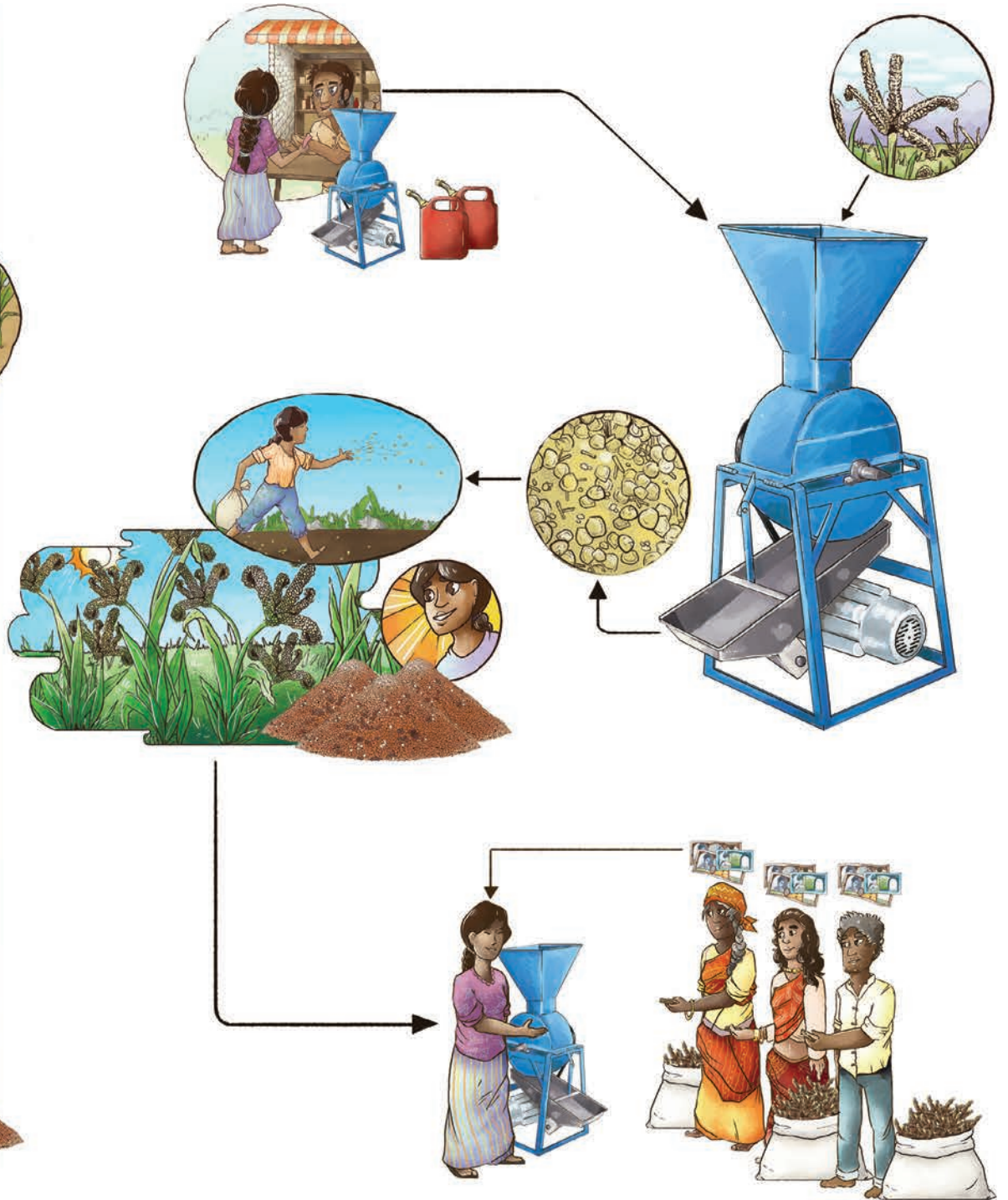
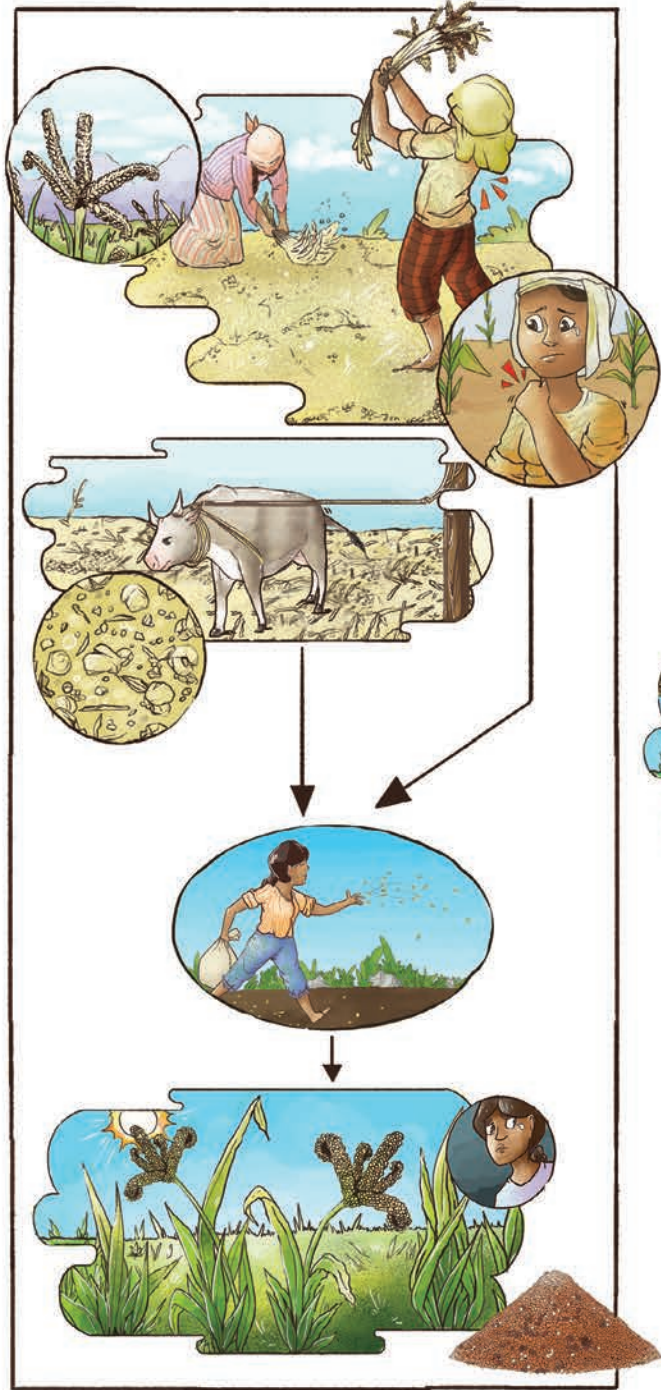


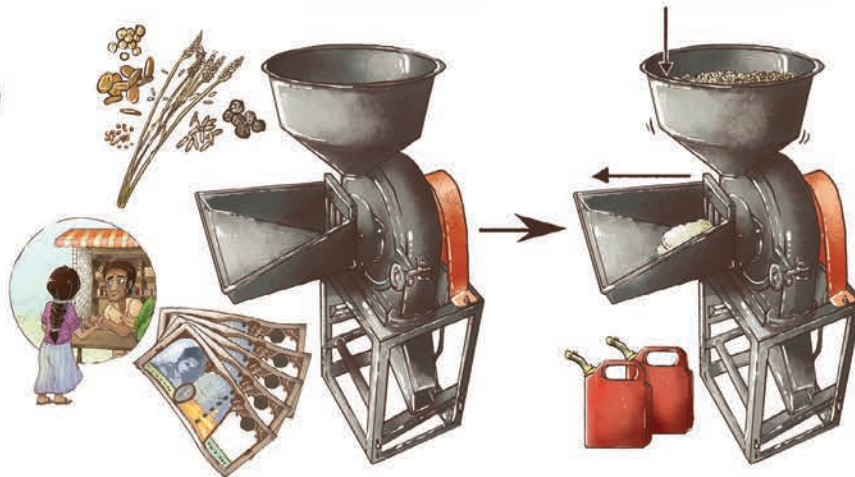
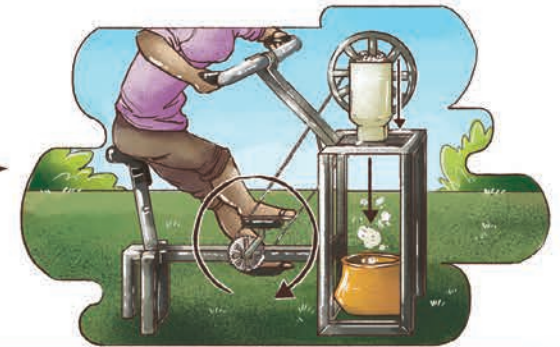
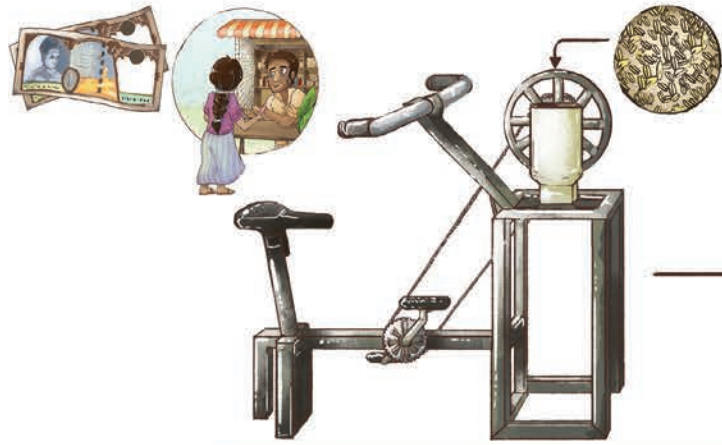
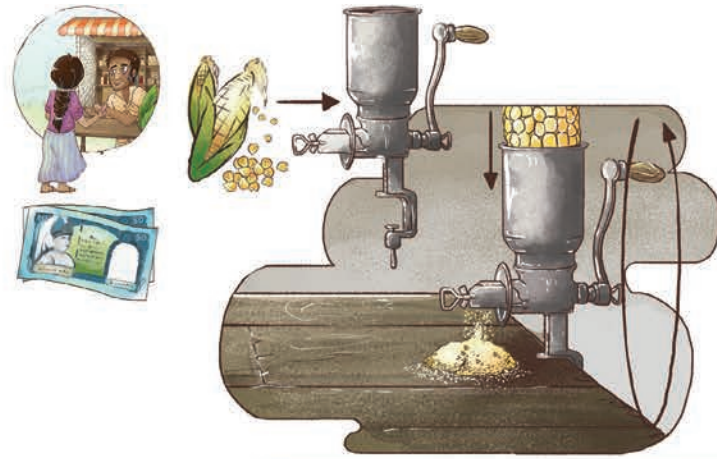


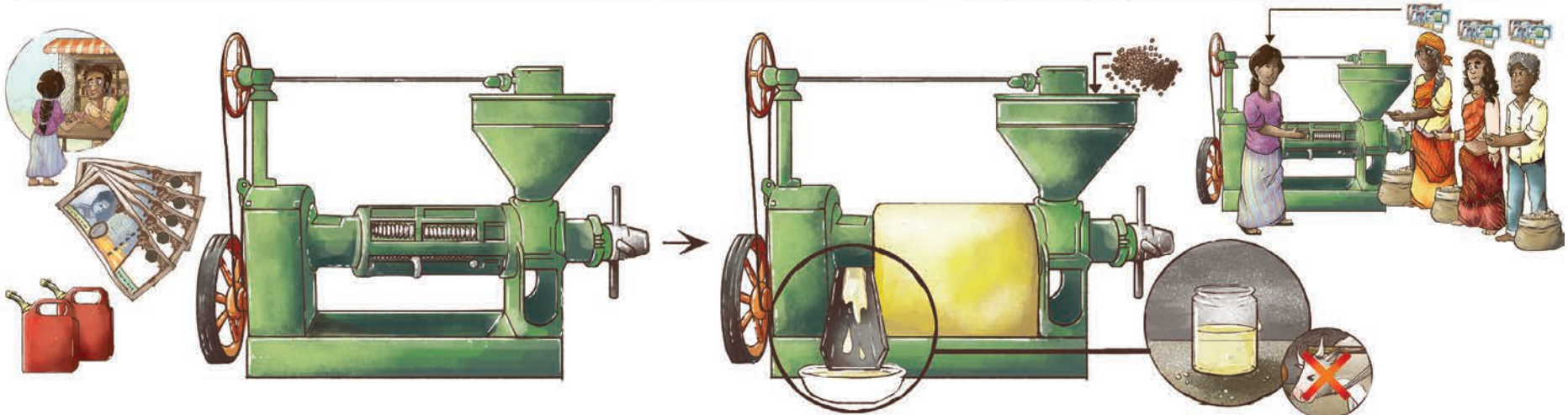
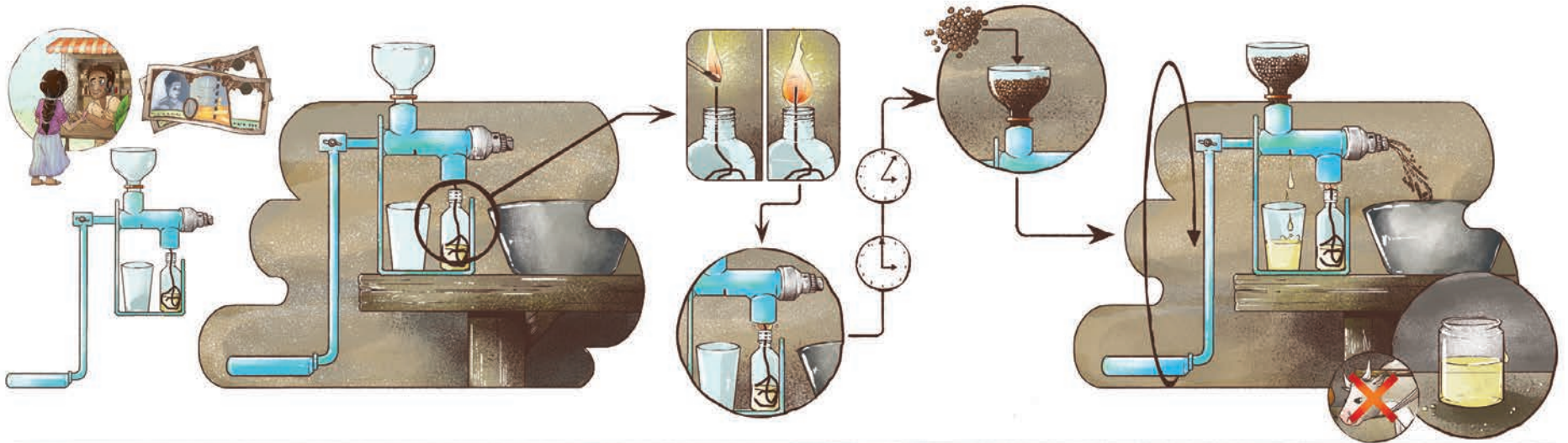
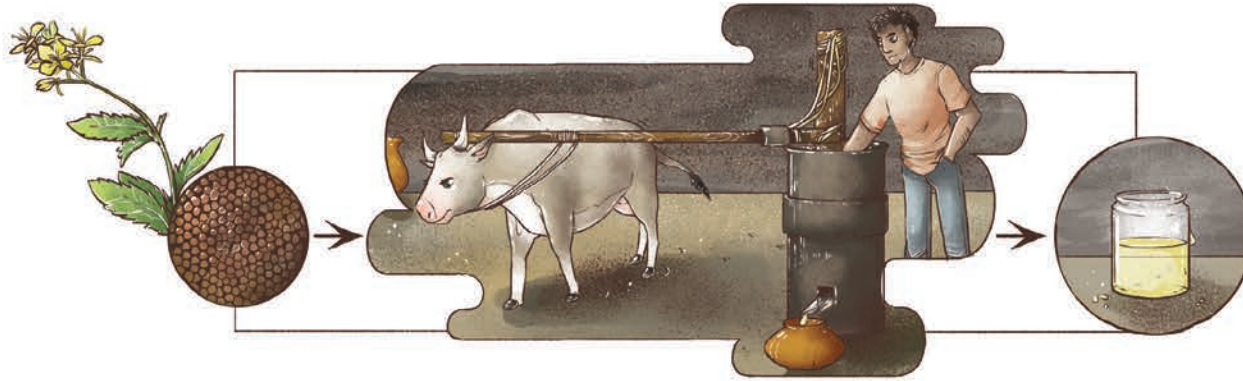


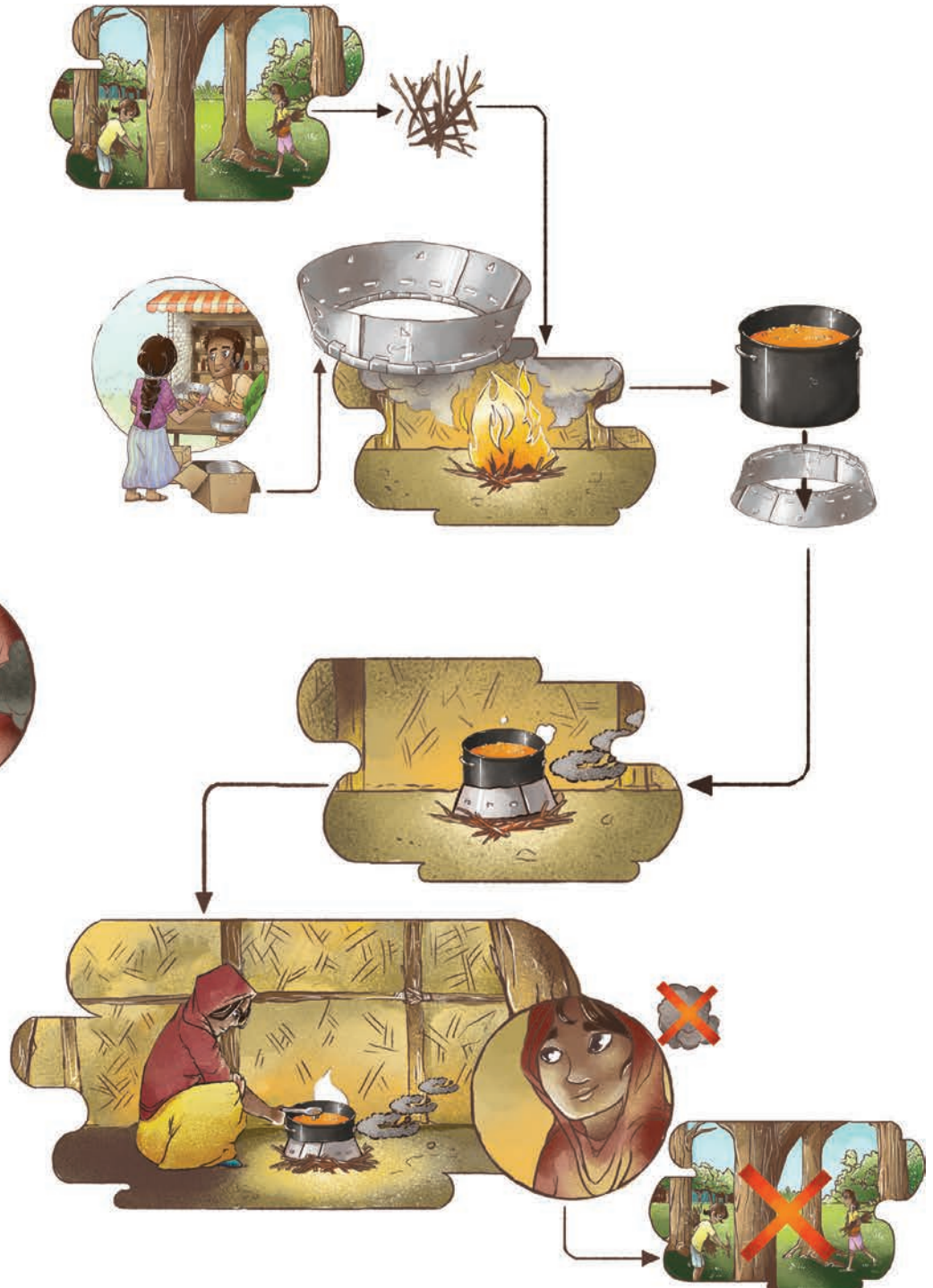
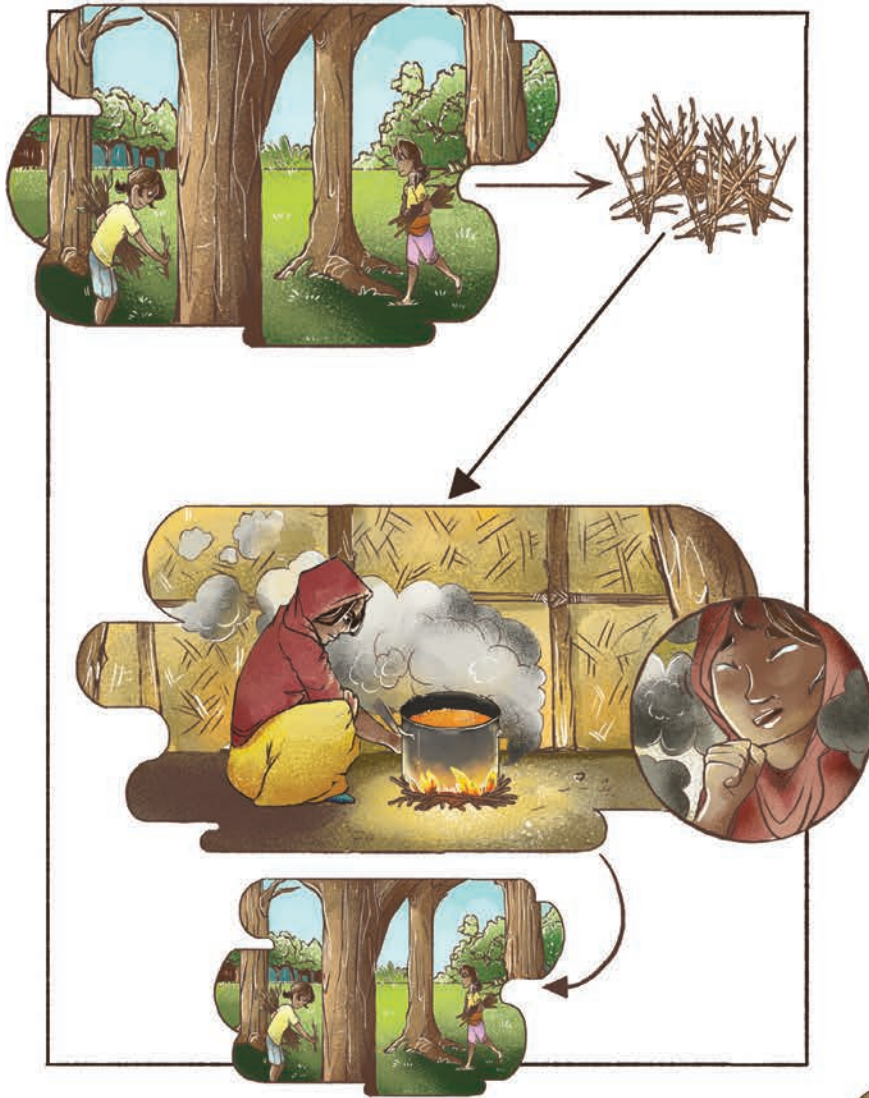


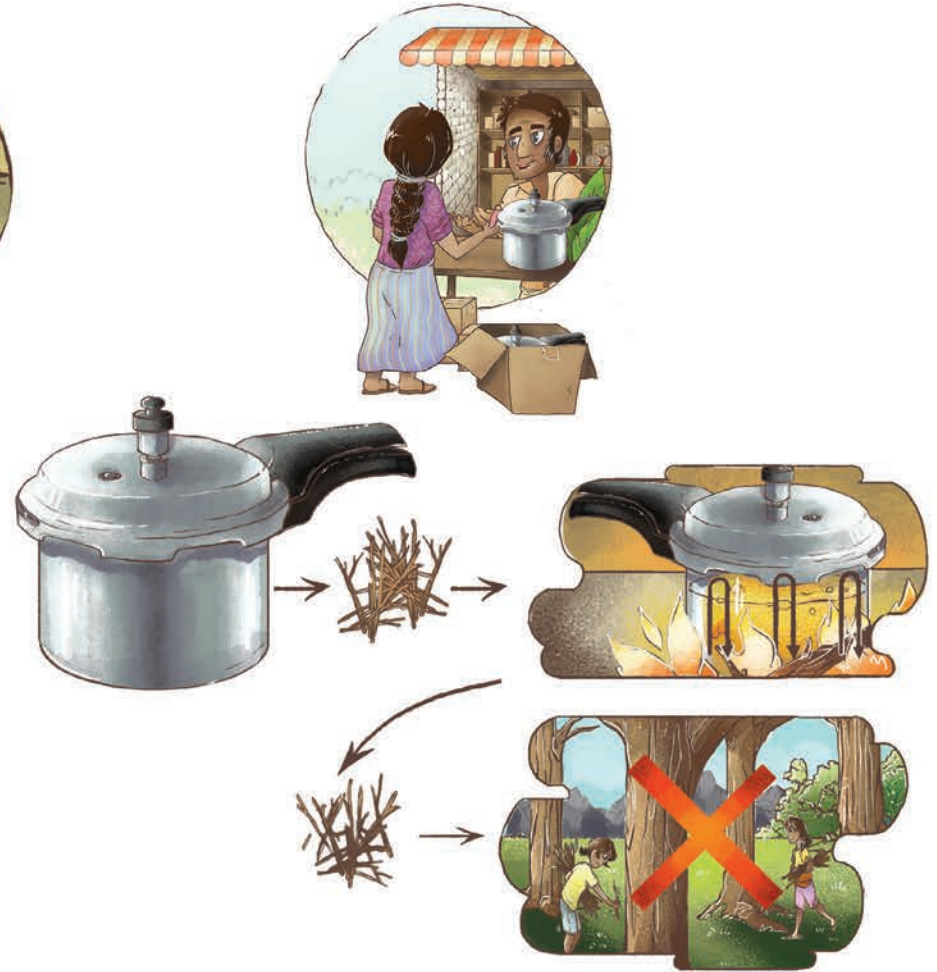
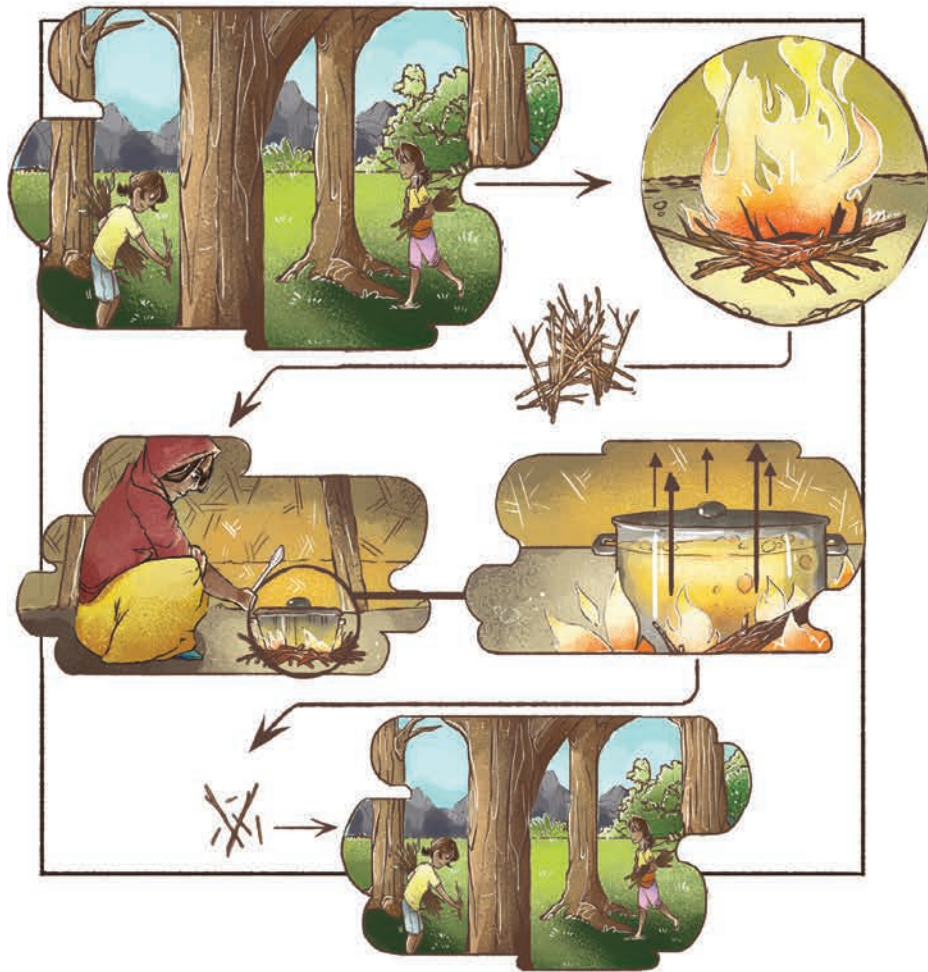


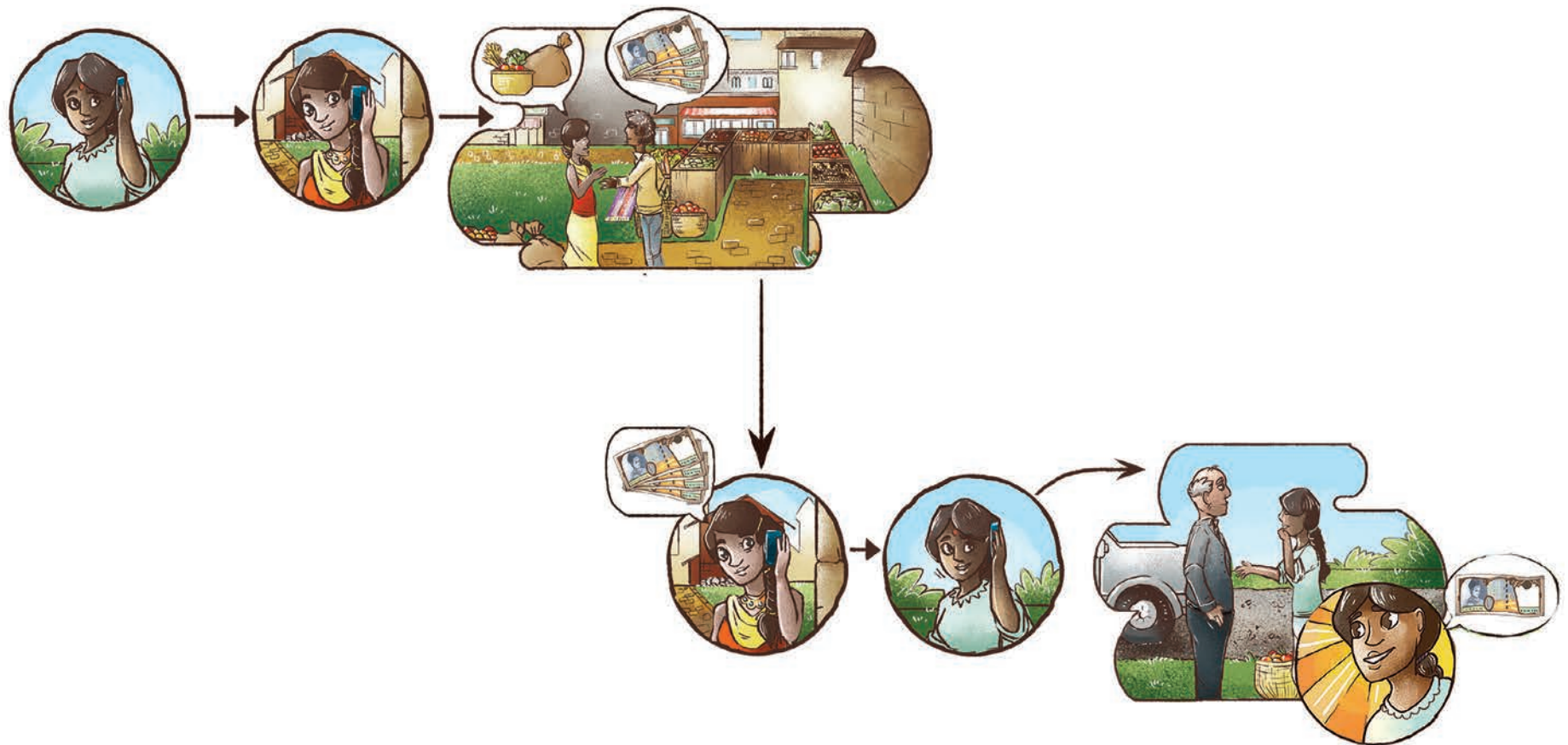
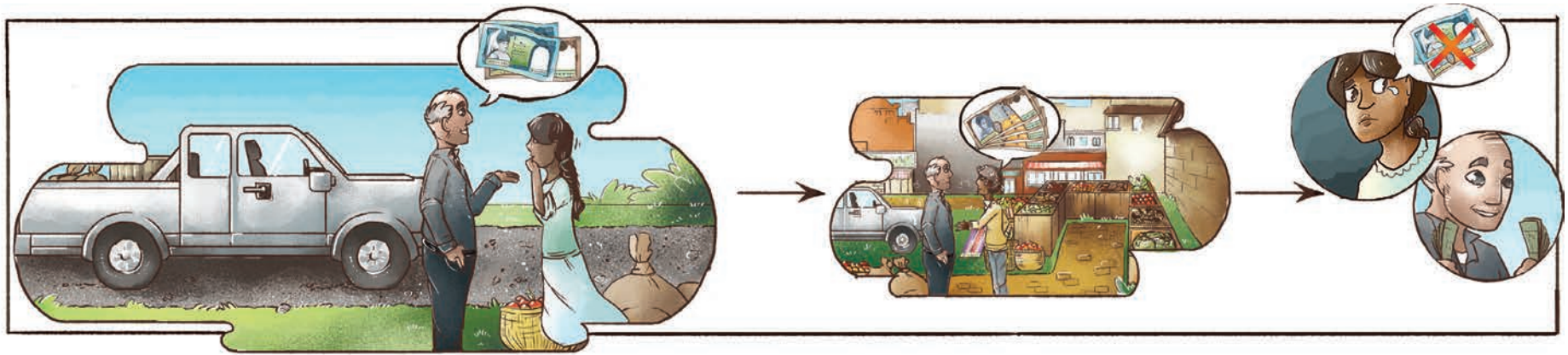


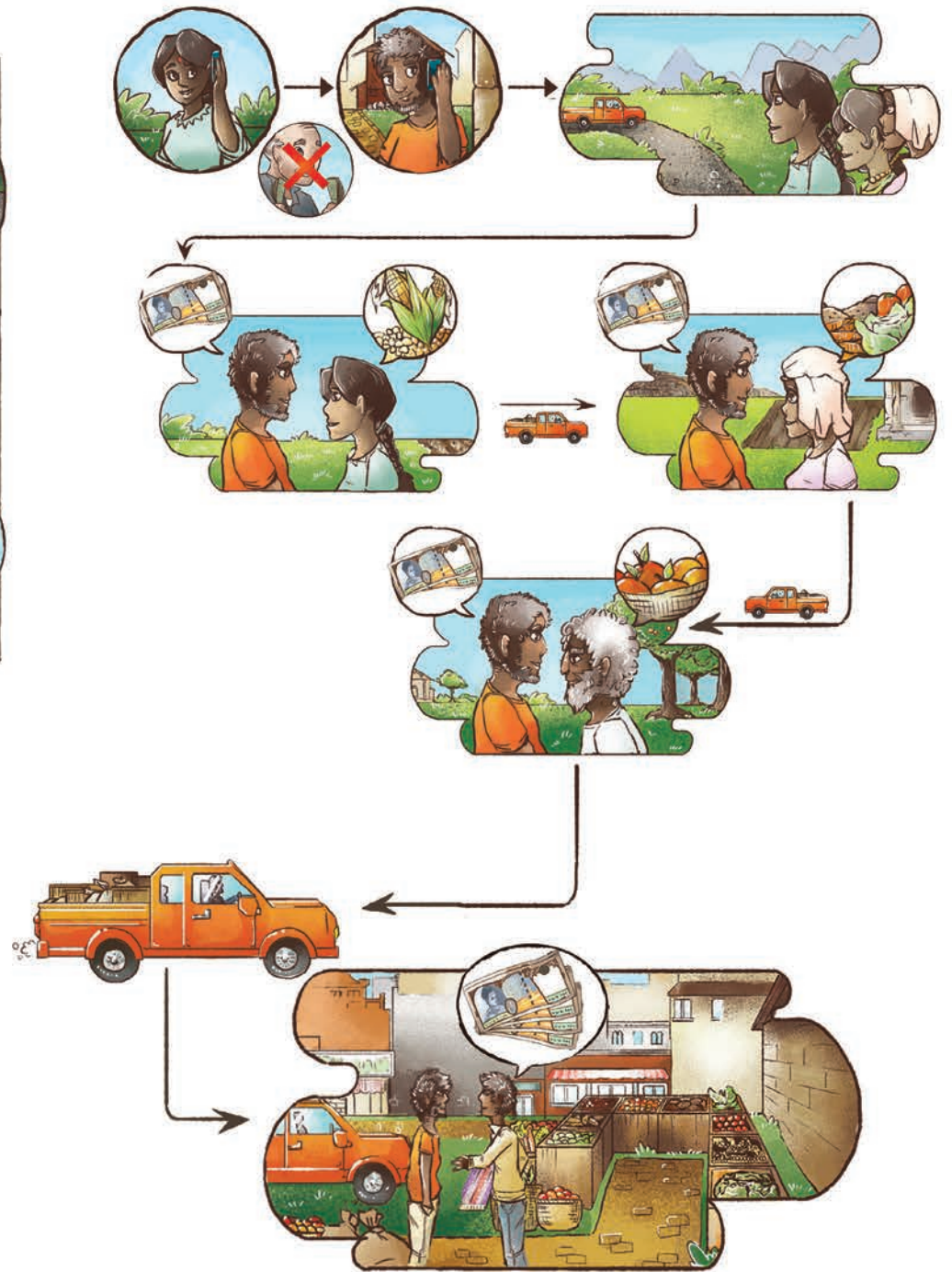


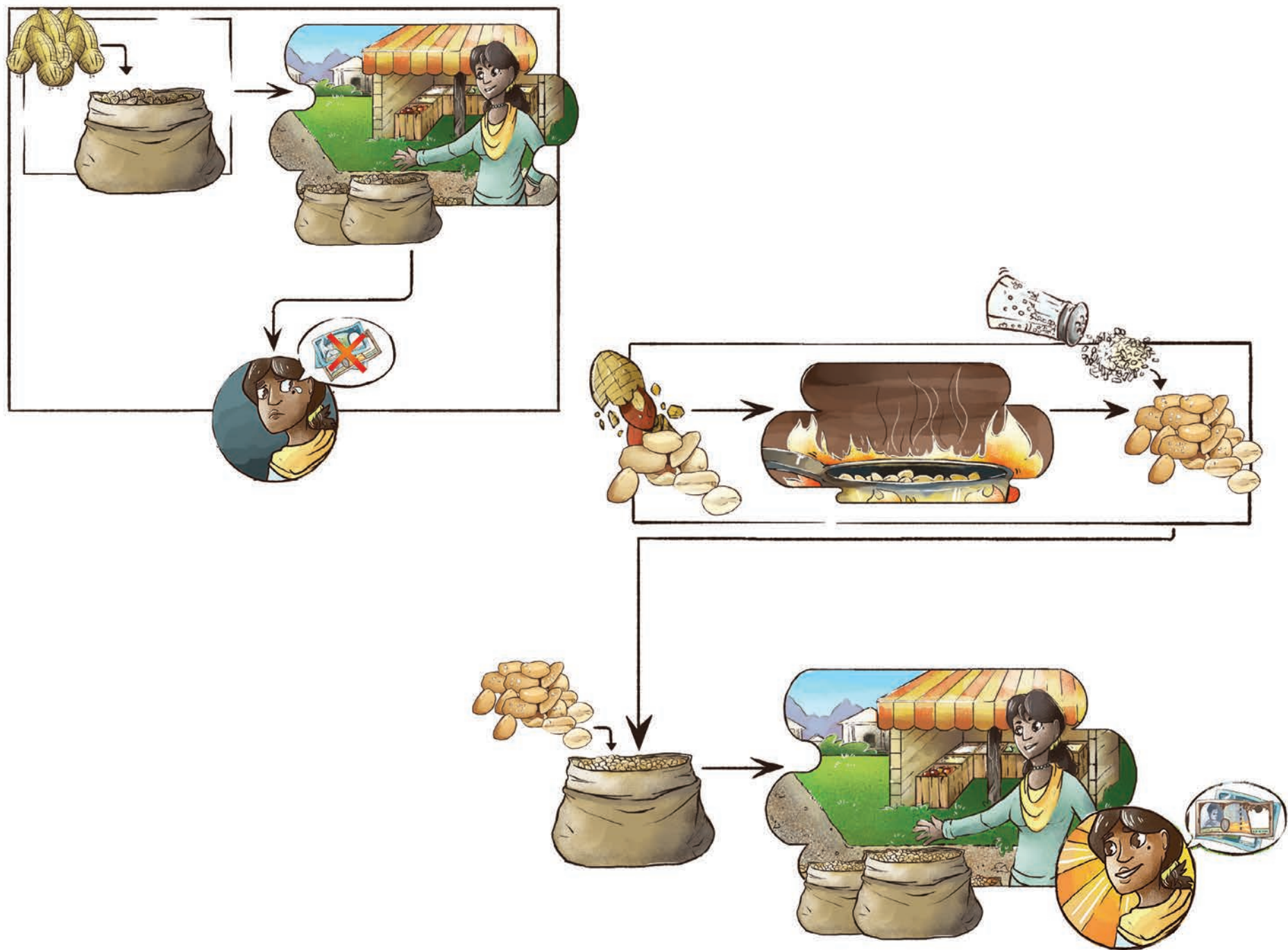


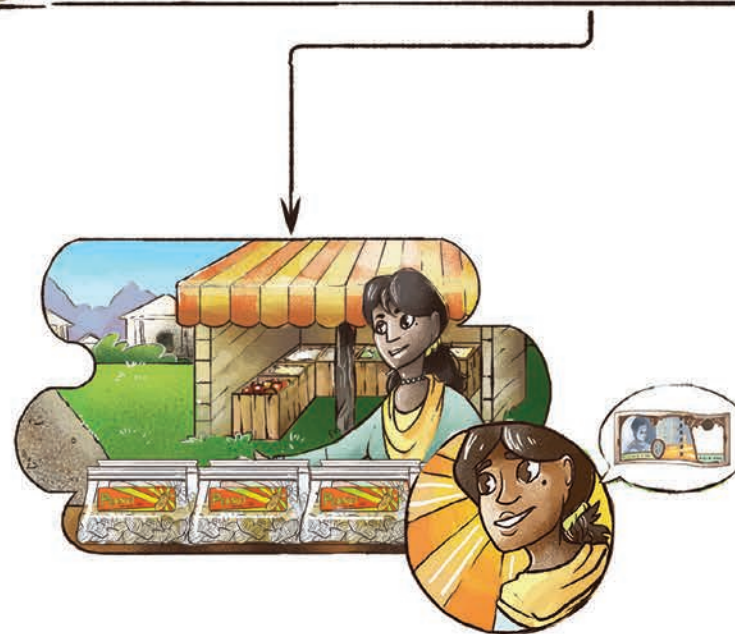
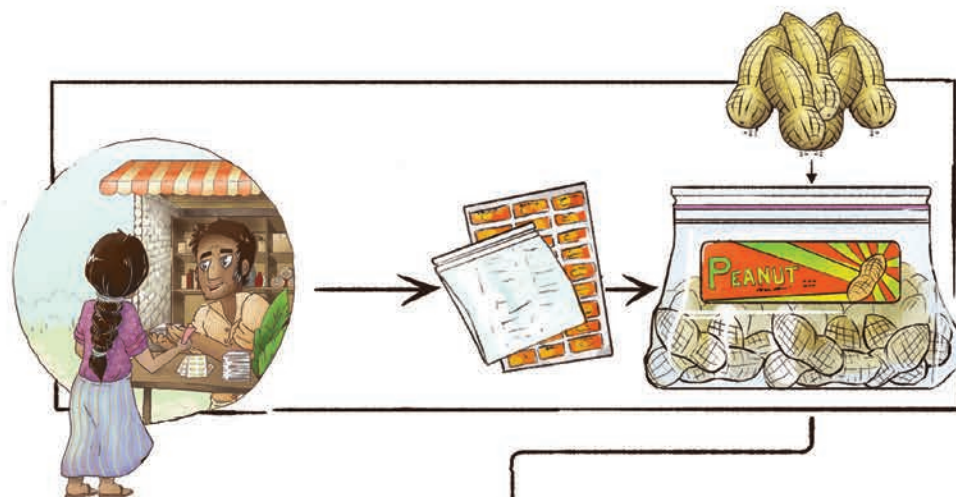
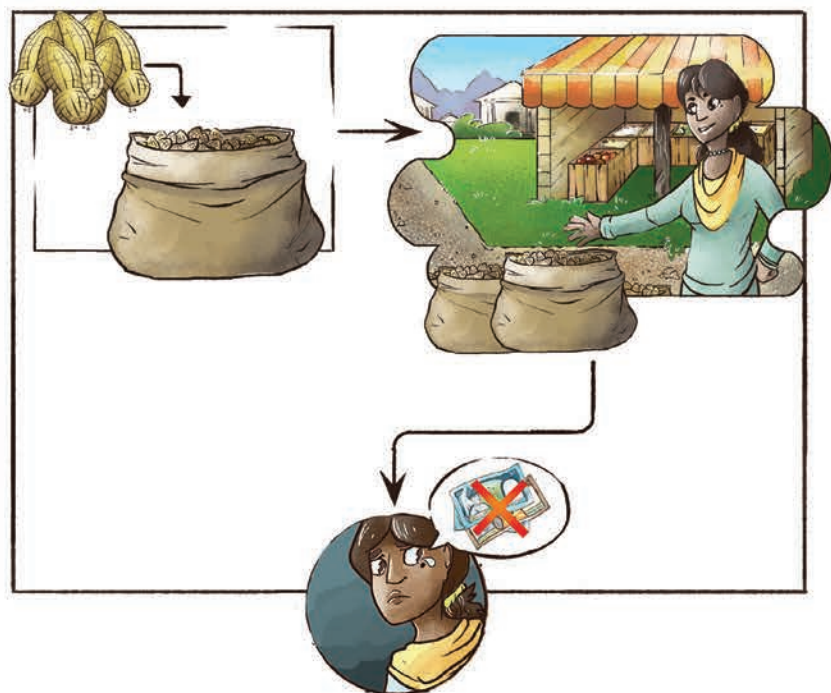




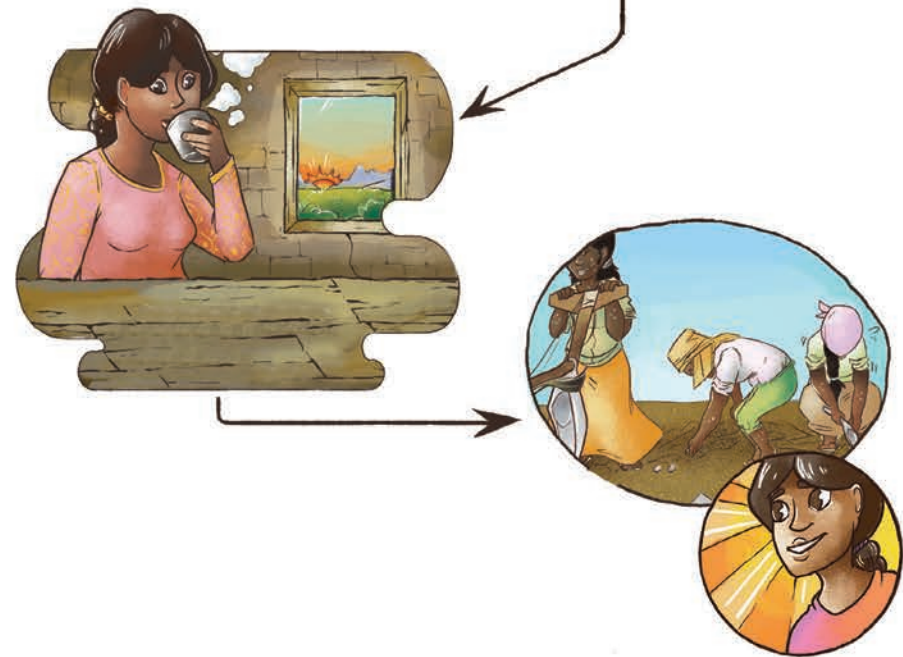
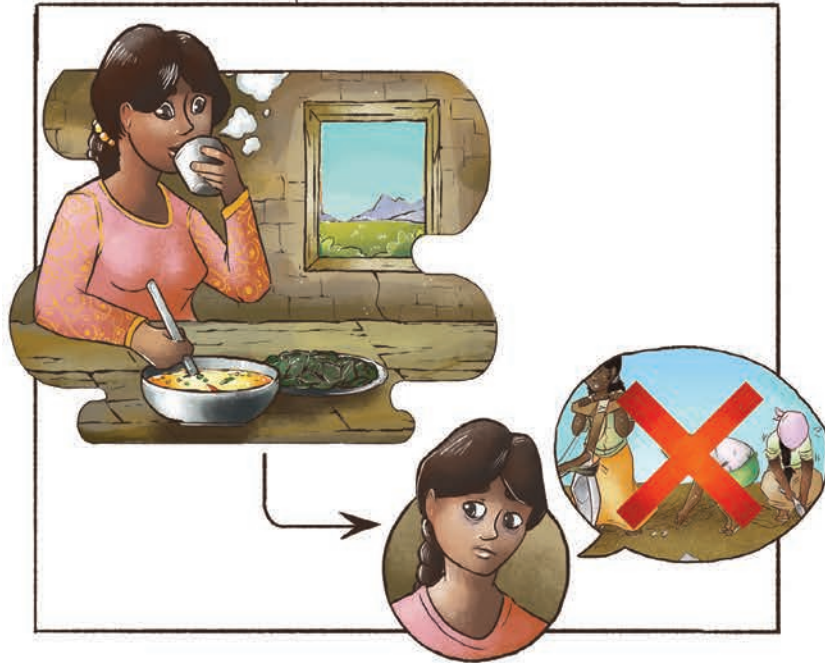


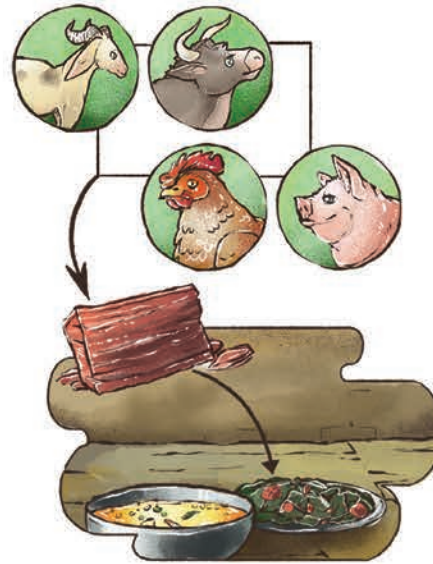


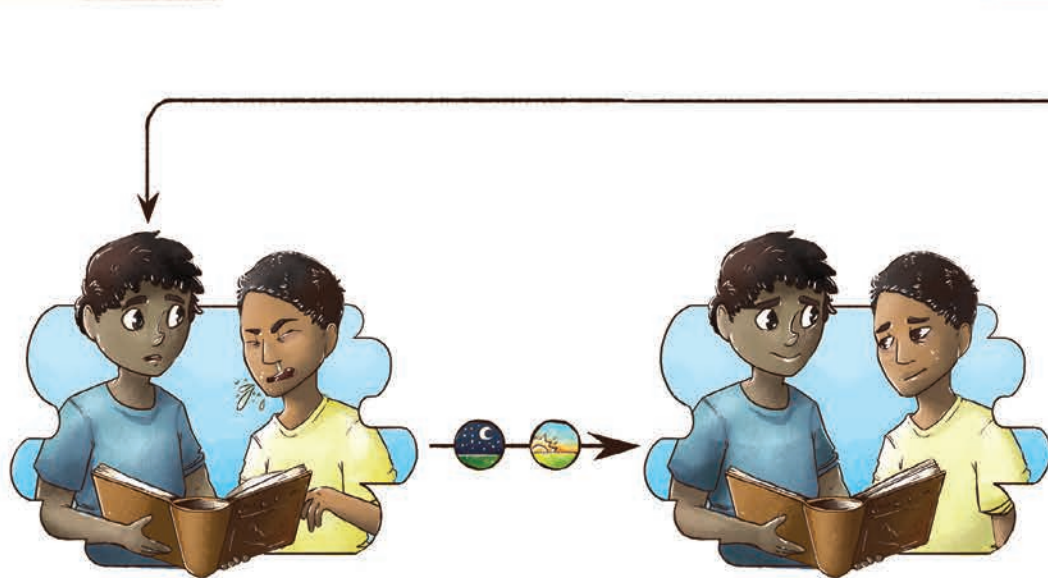
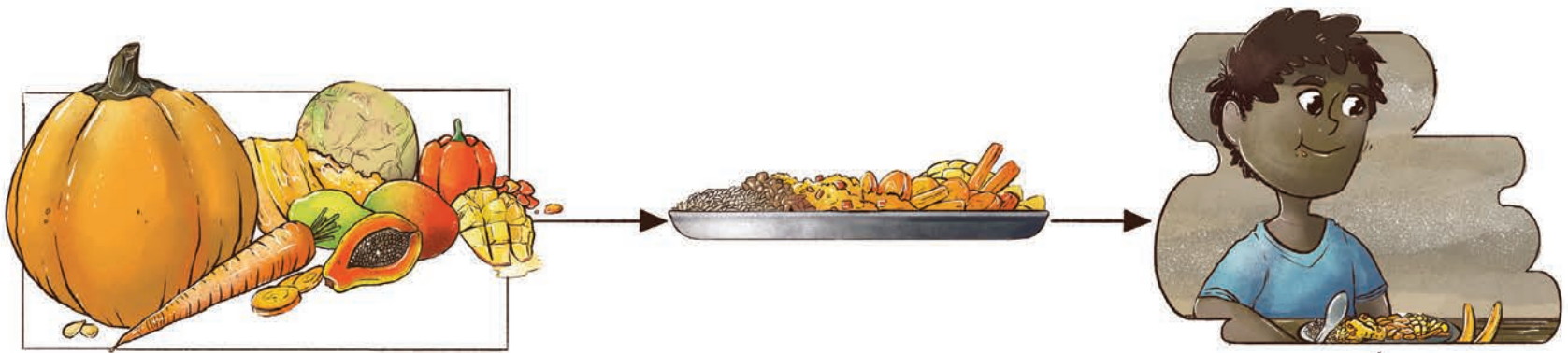


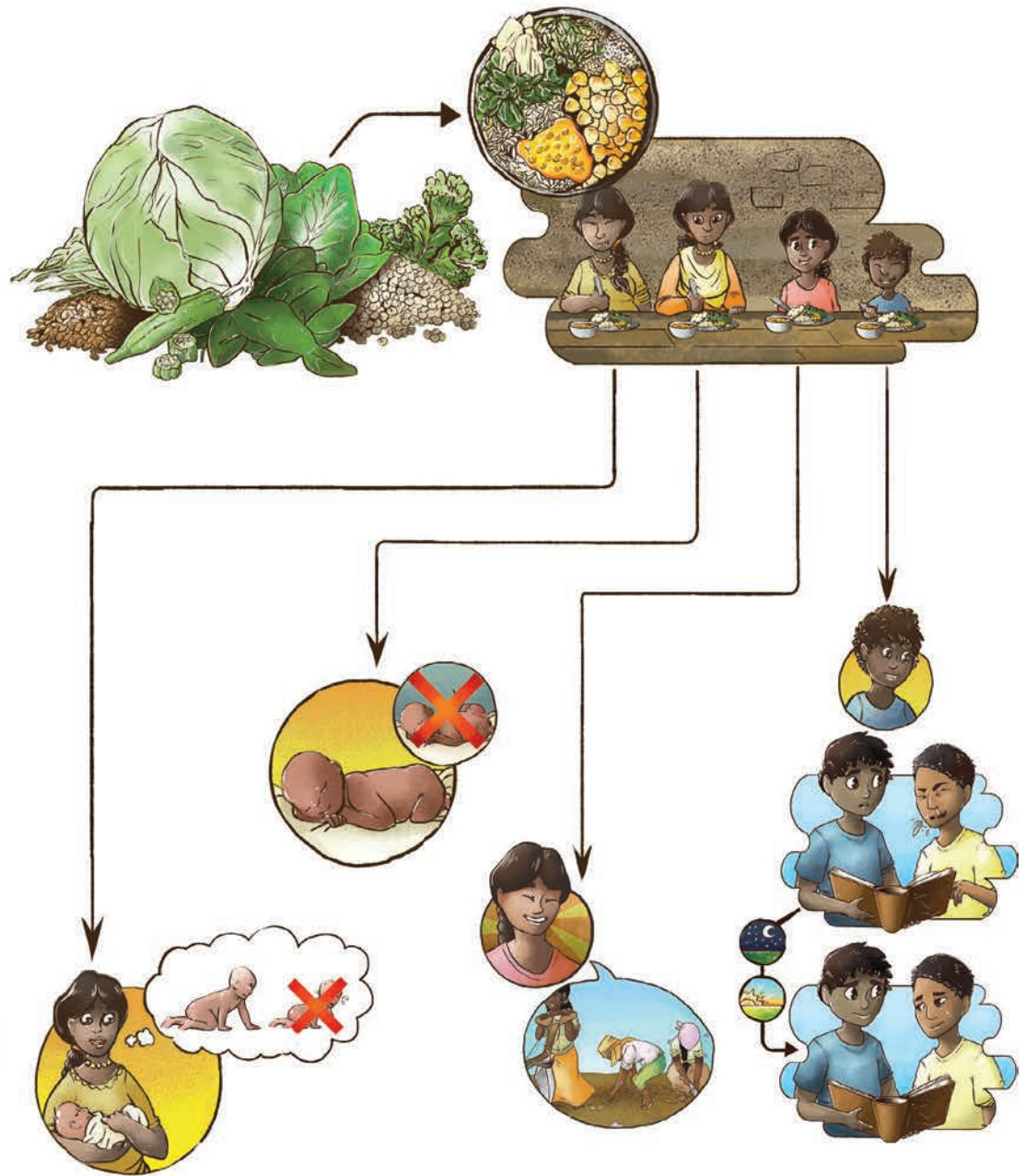
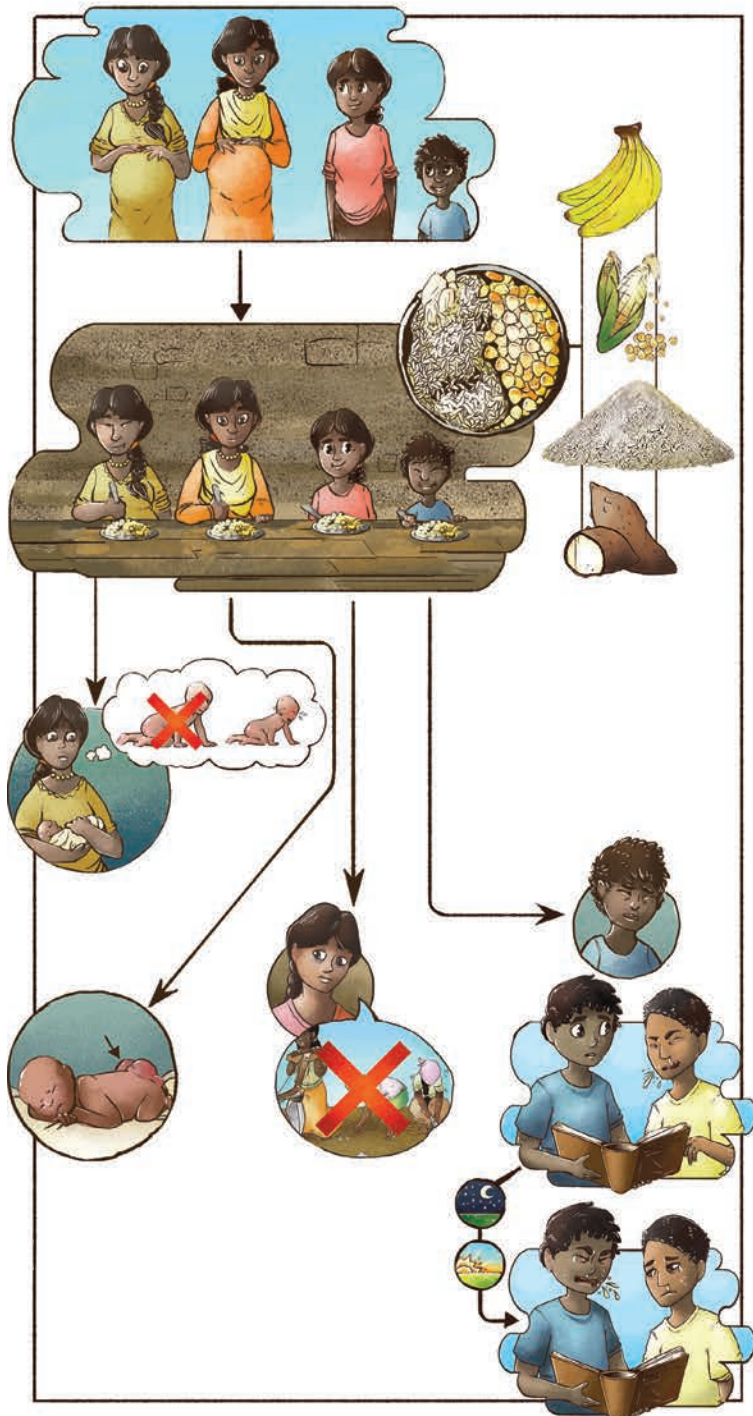


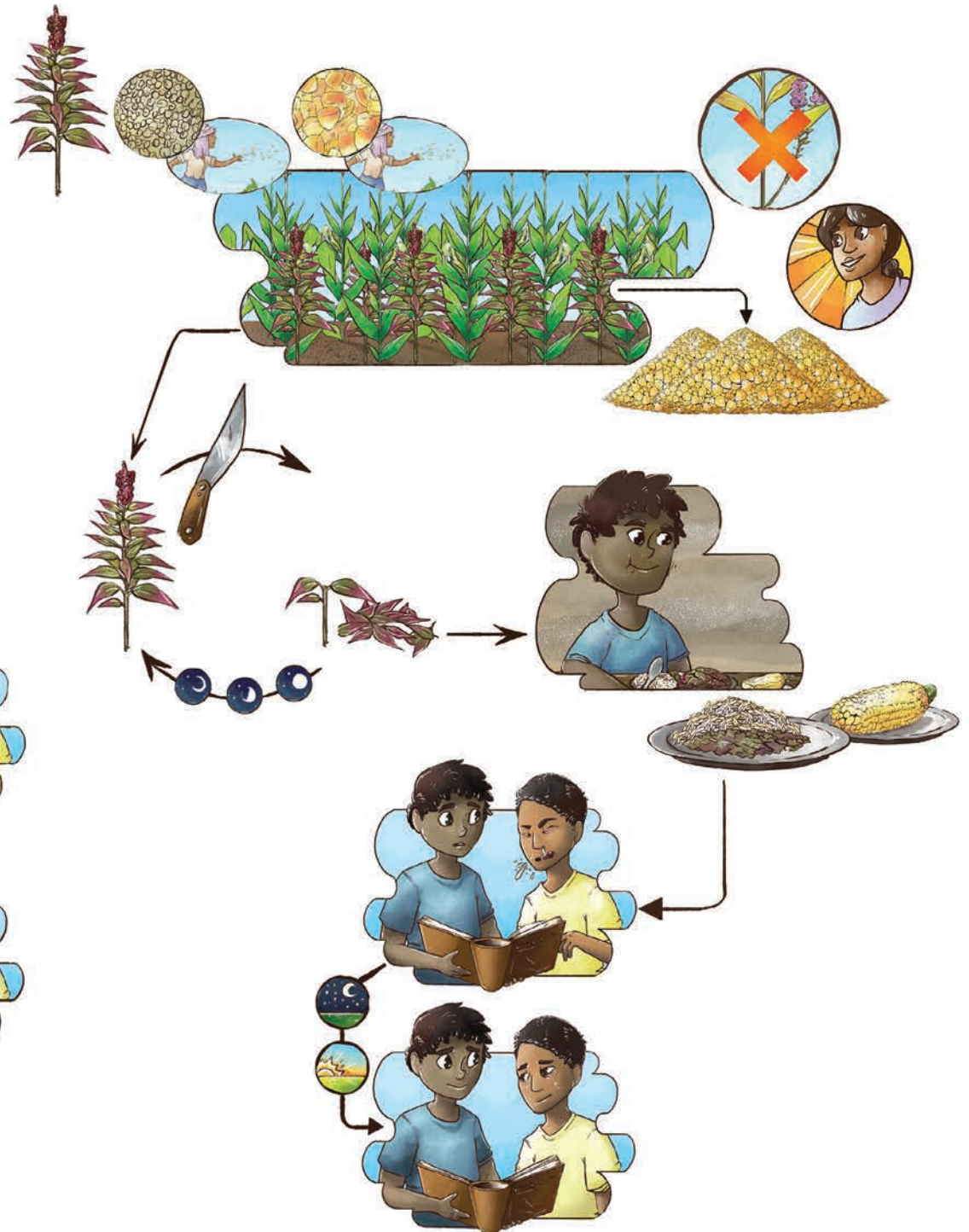
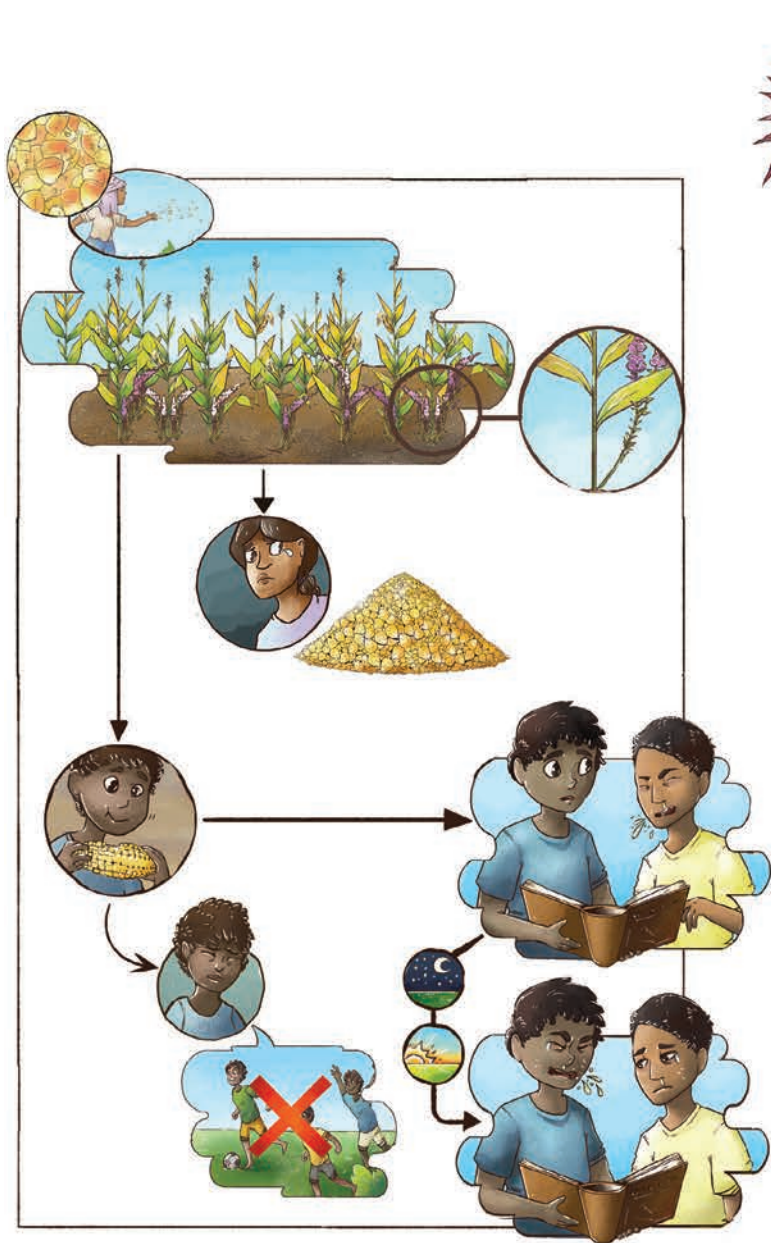
Chapter 10: Human Nutrition

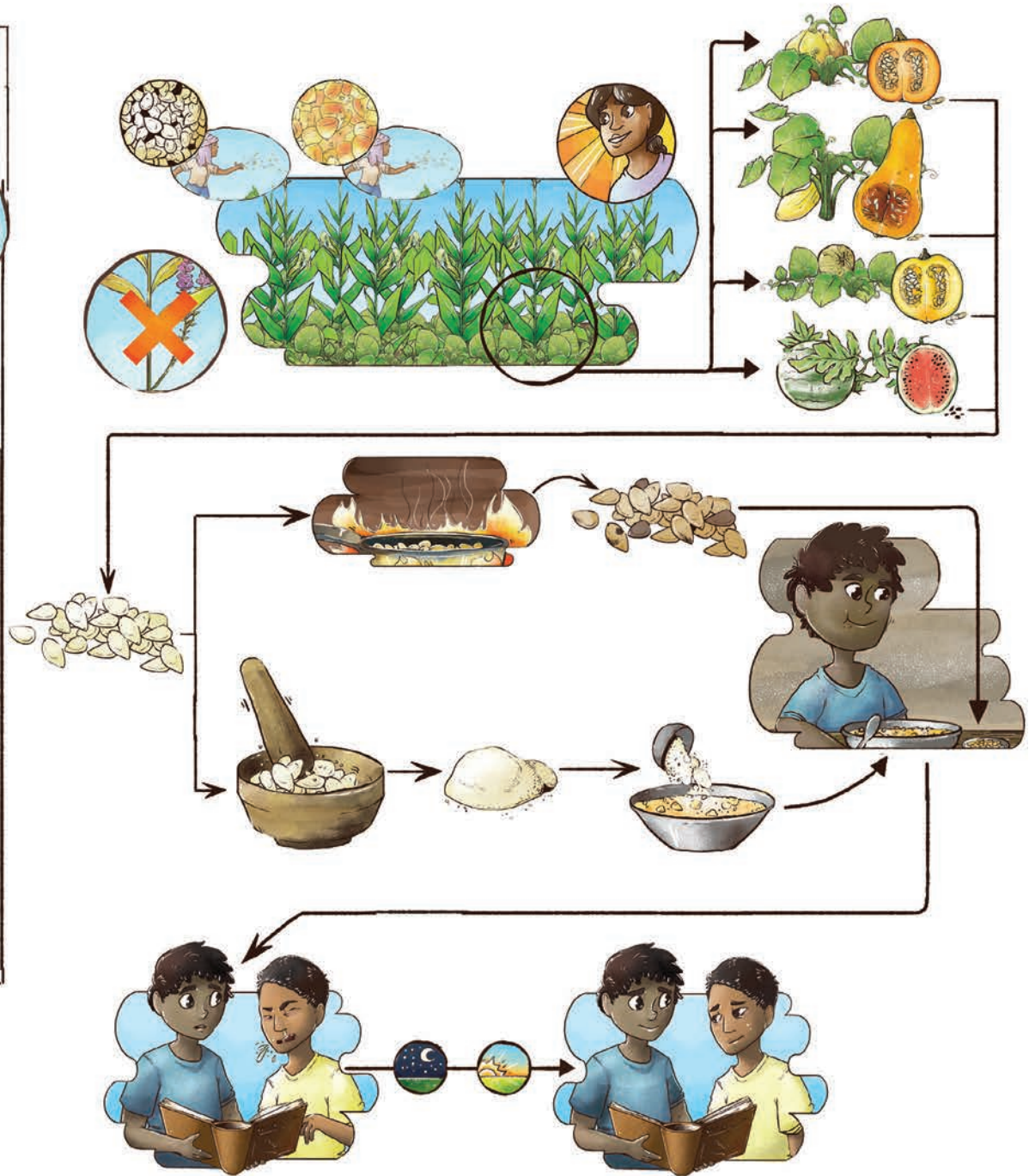
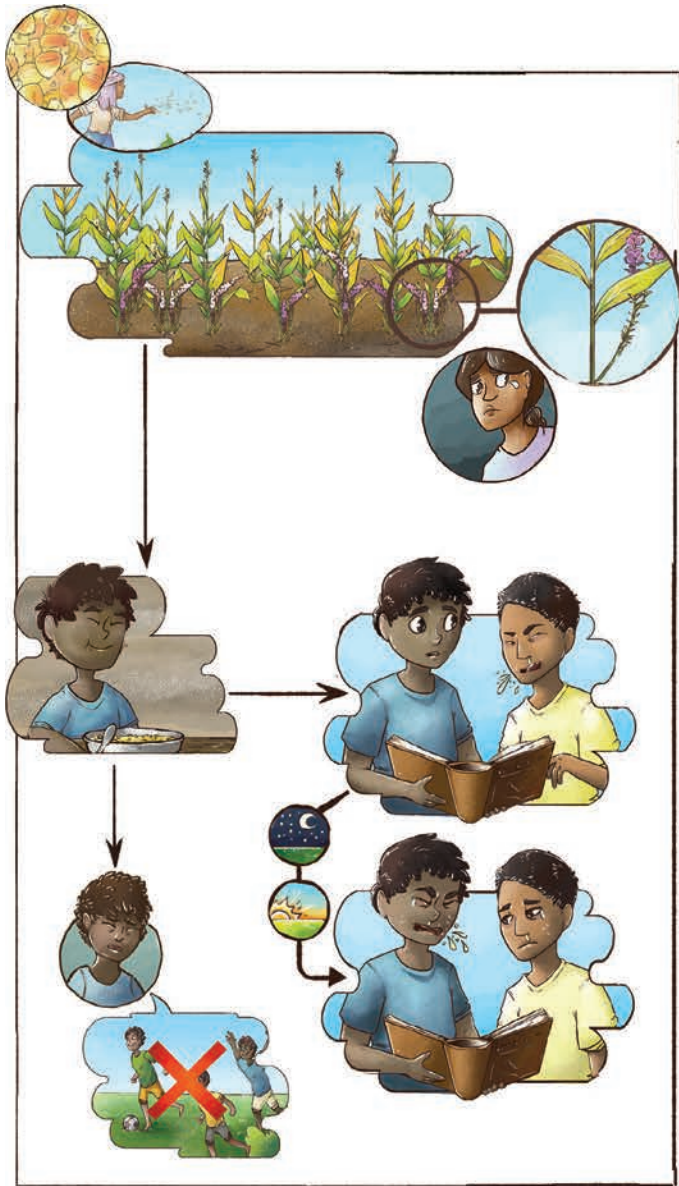


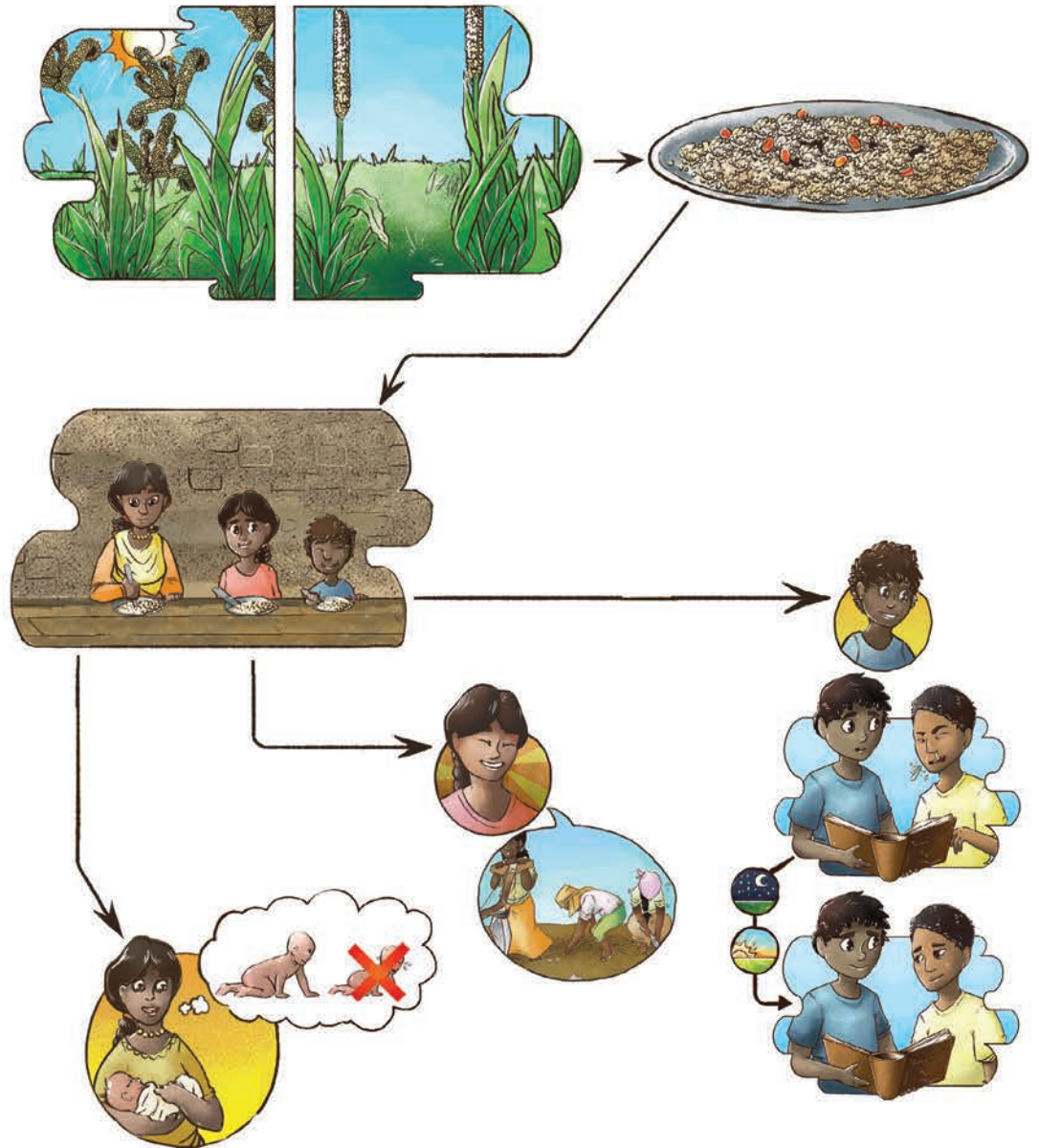
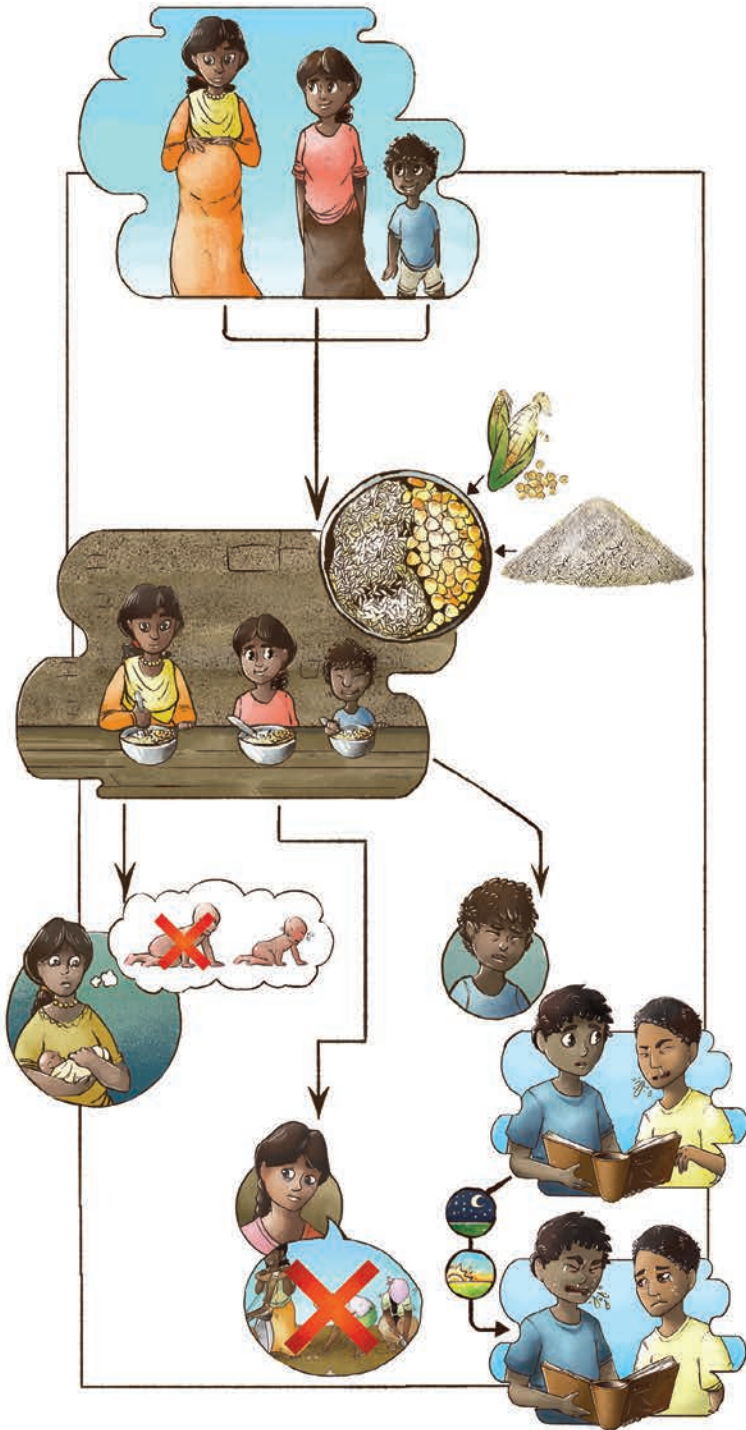


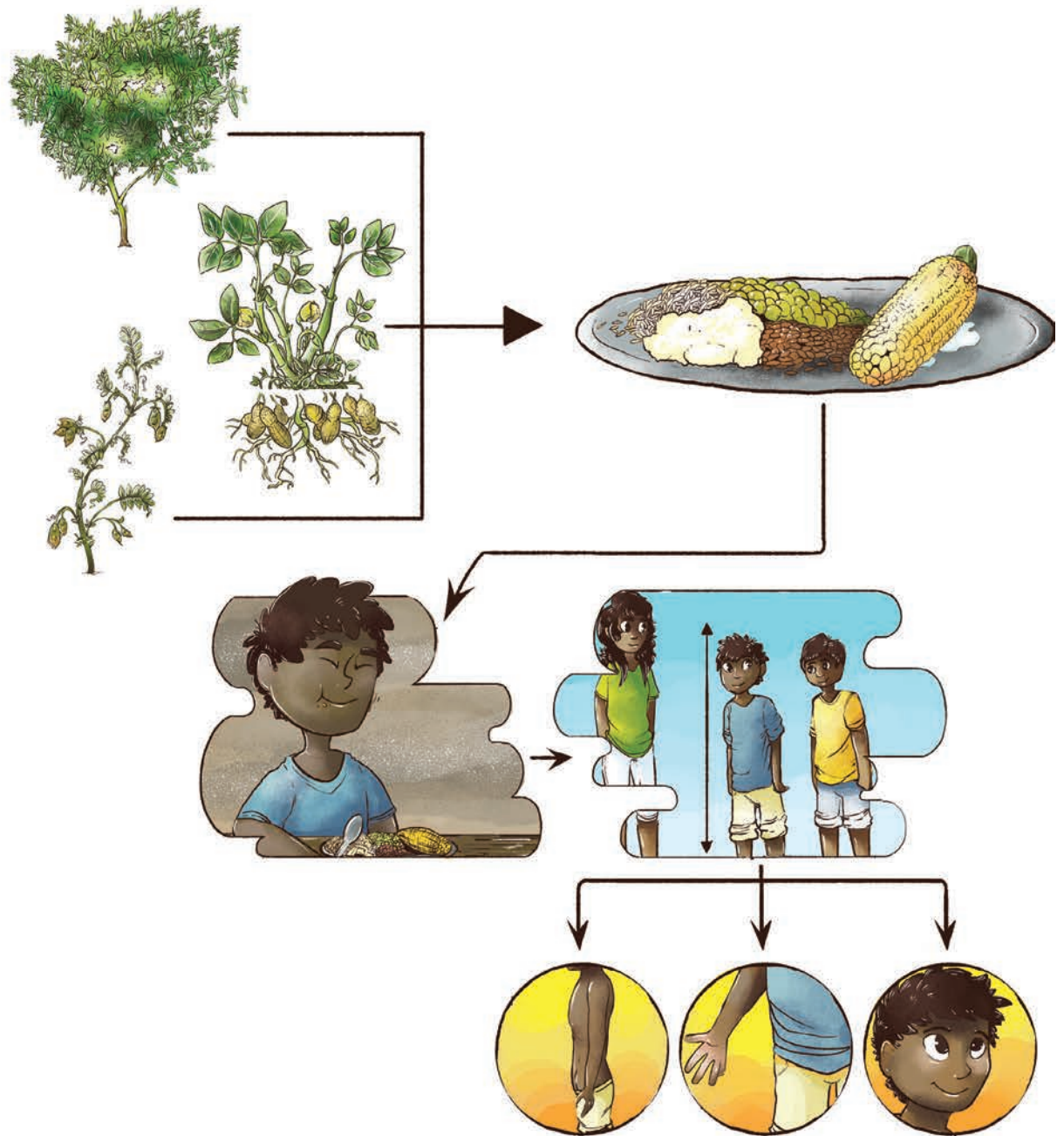
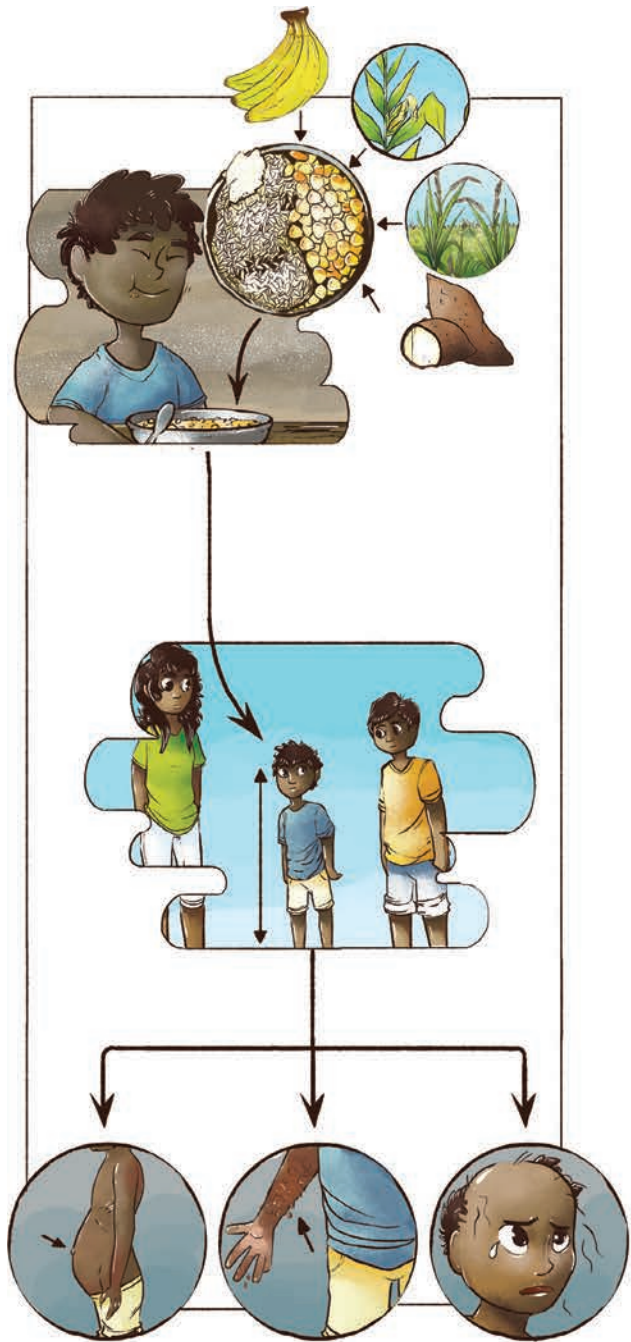


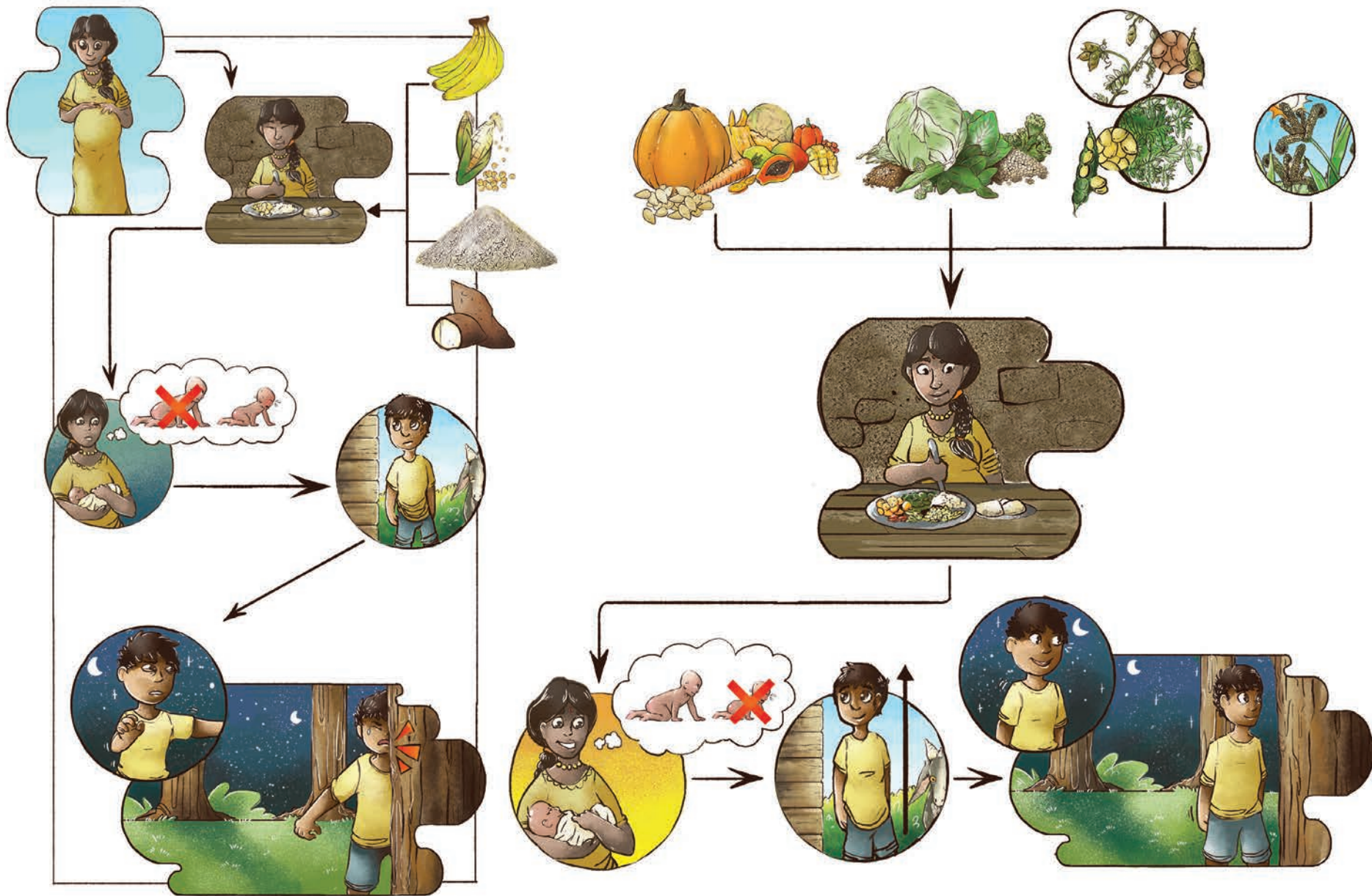




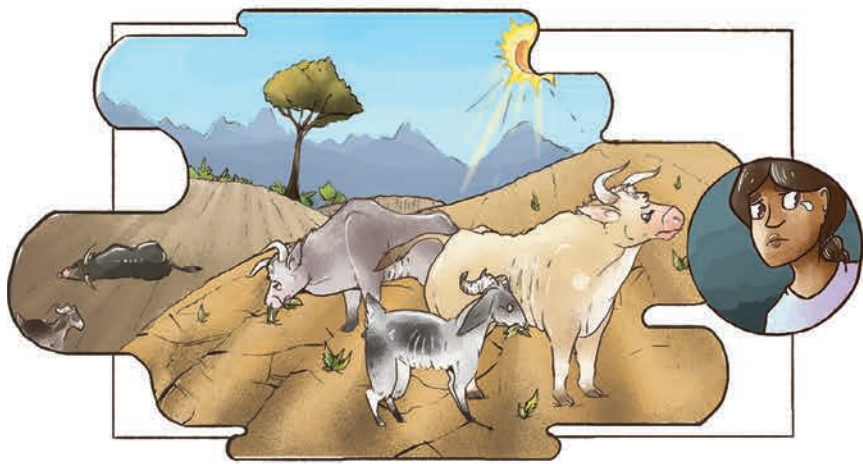


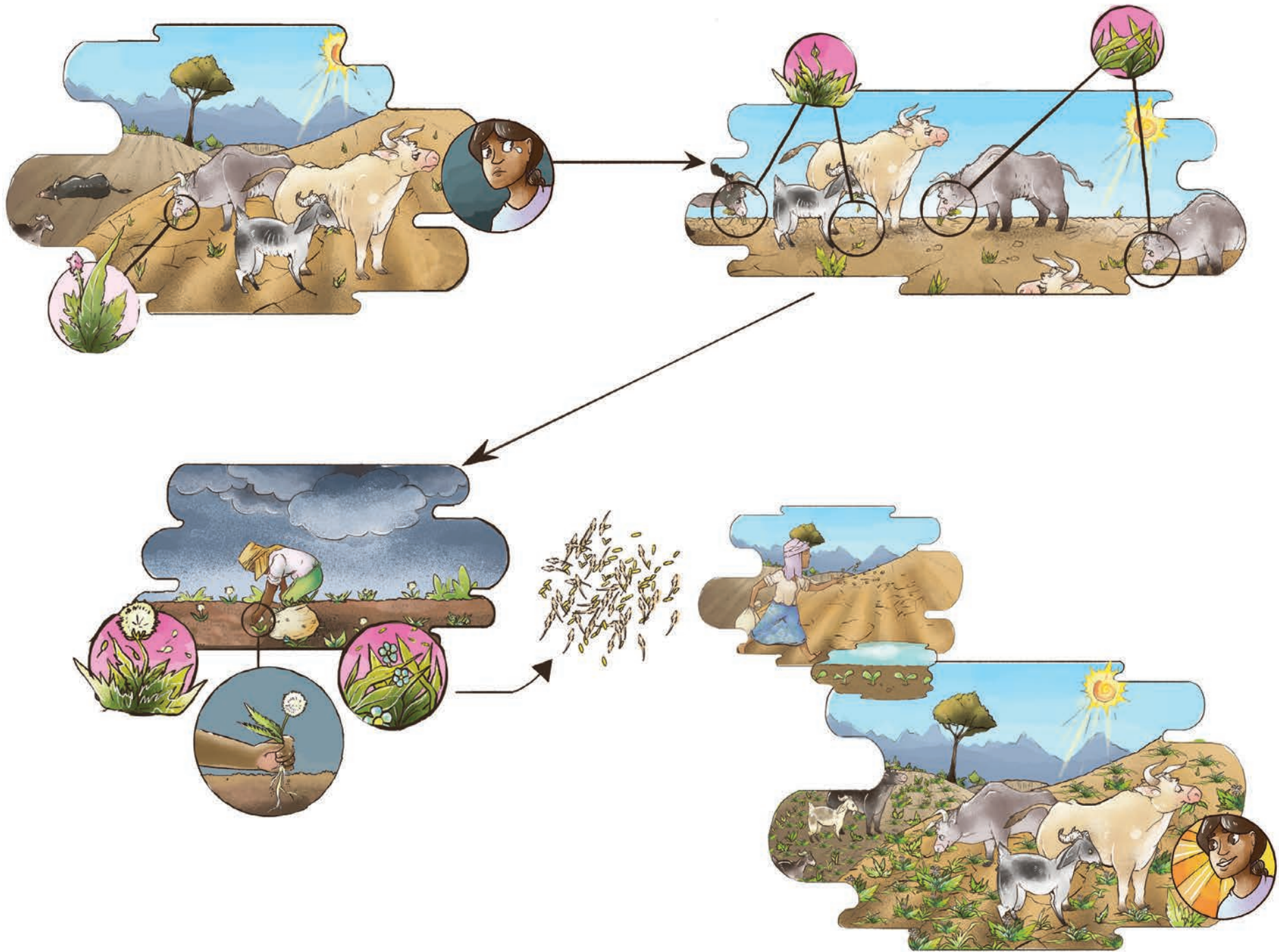


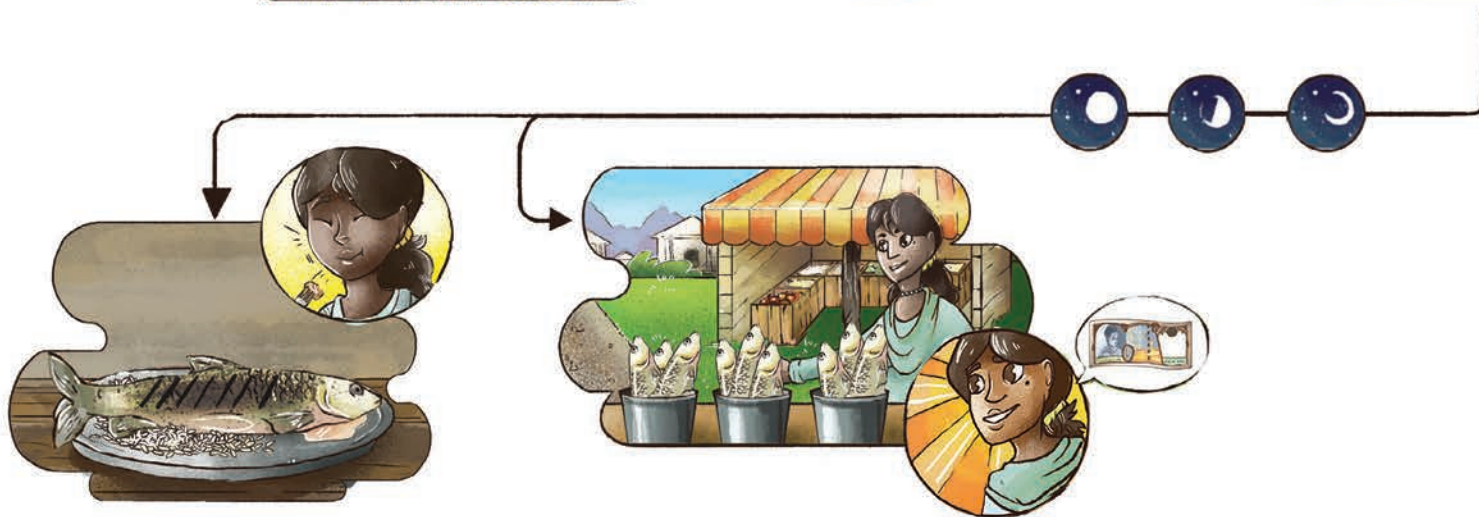
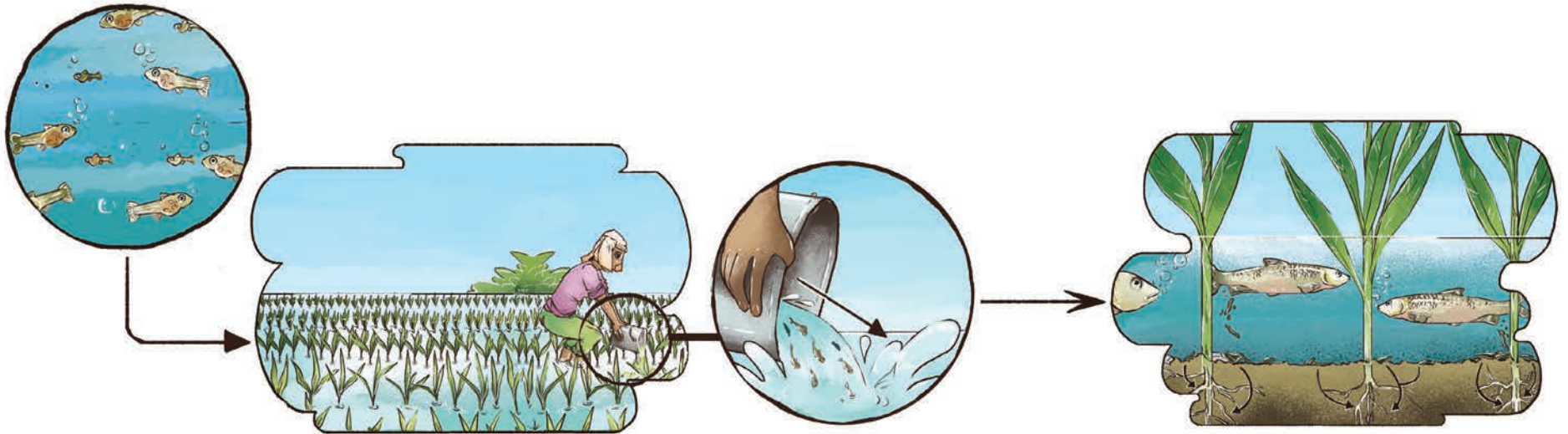
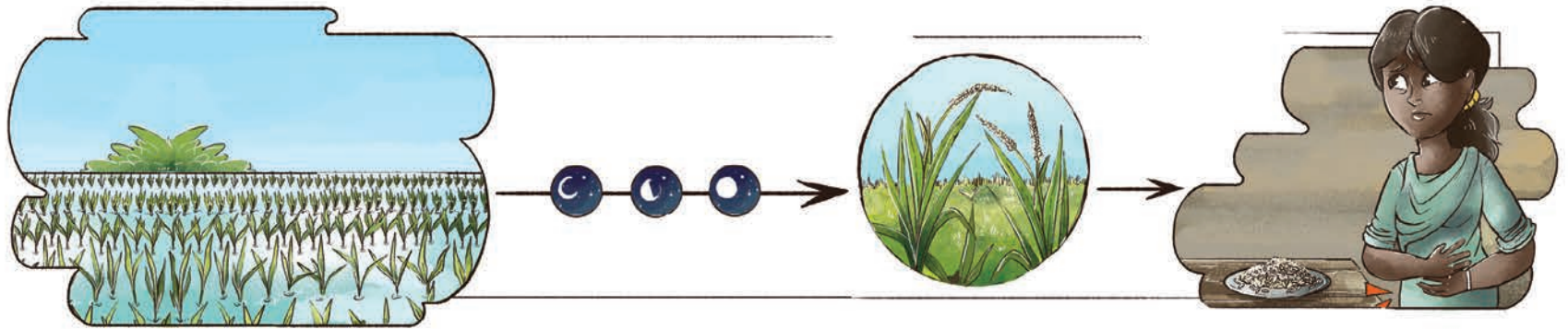




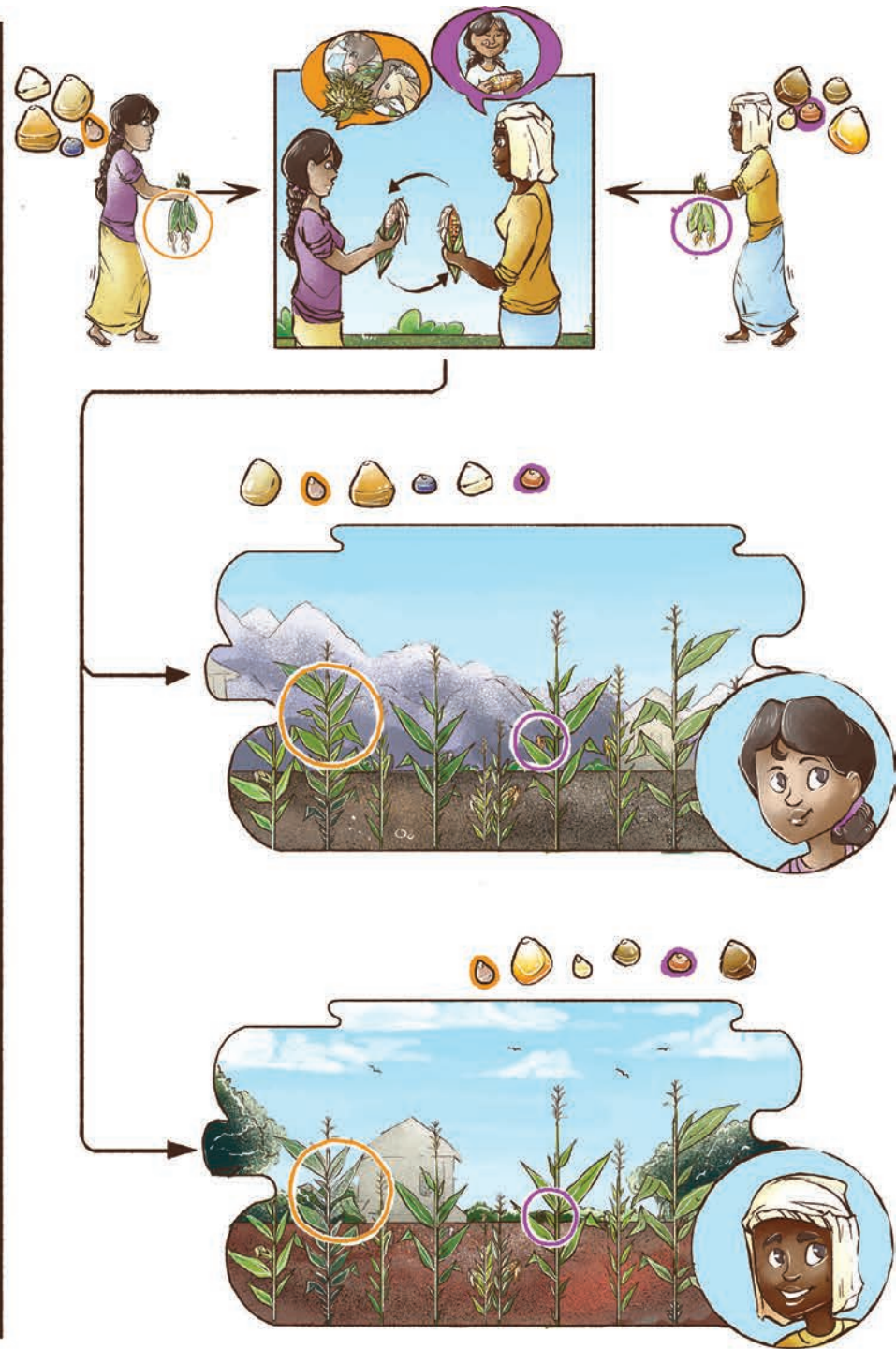
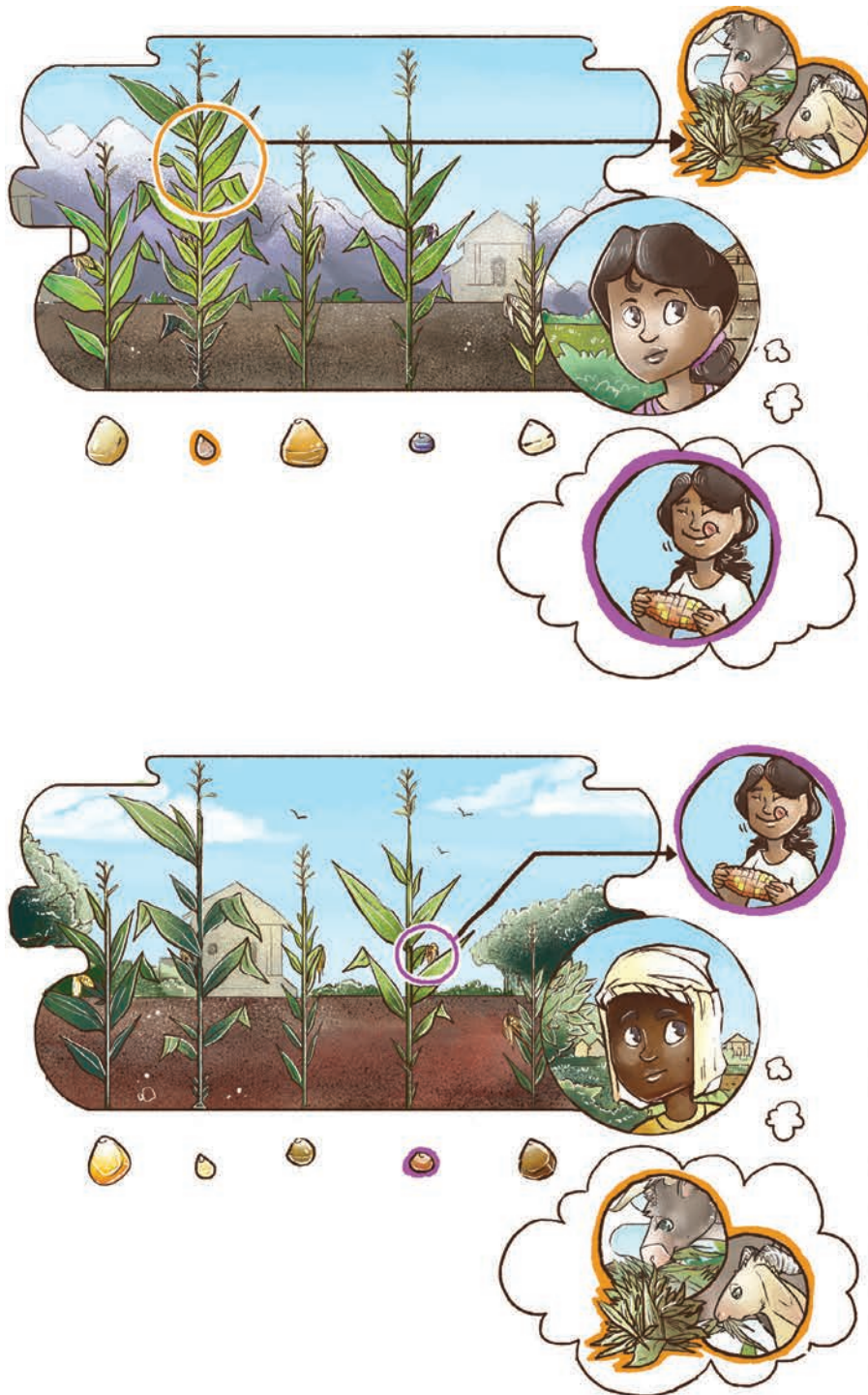
Chapter 11: Animals

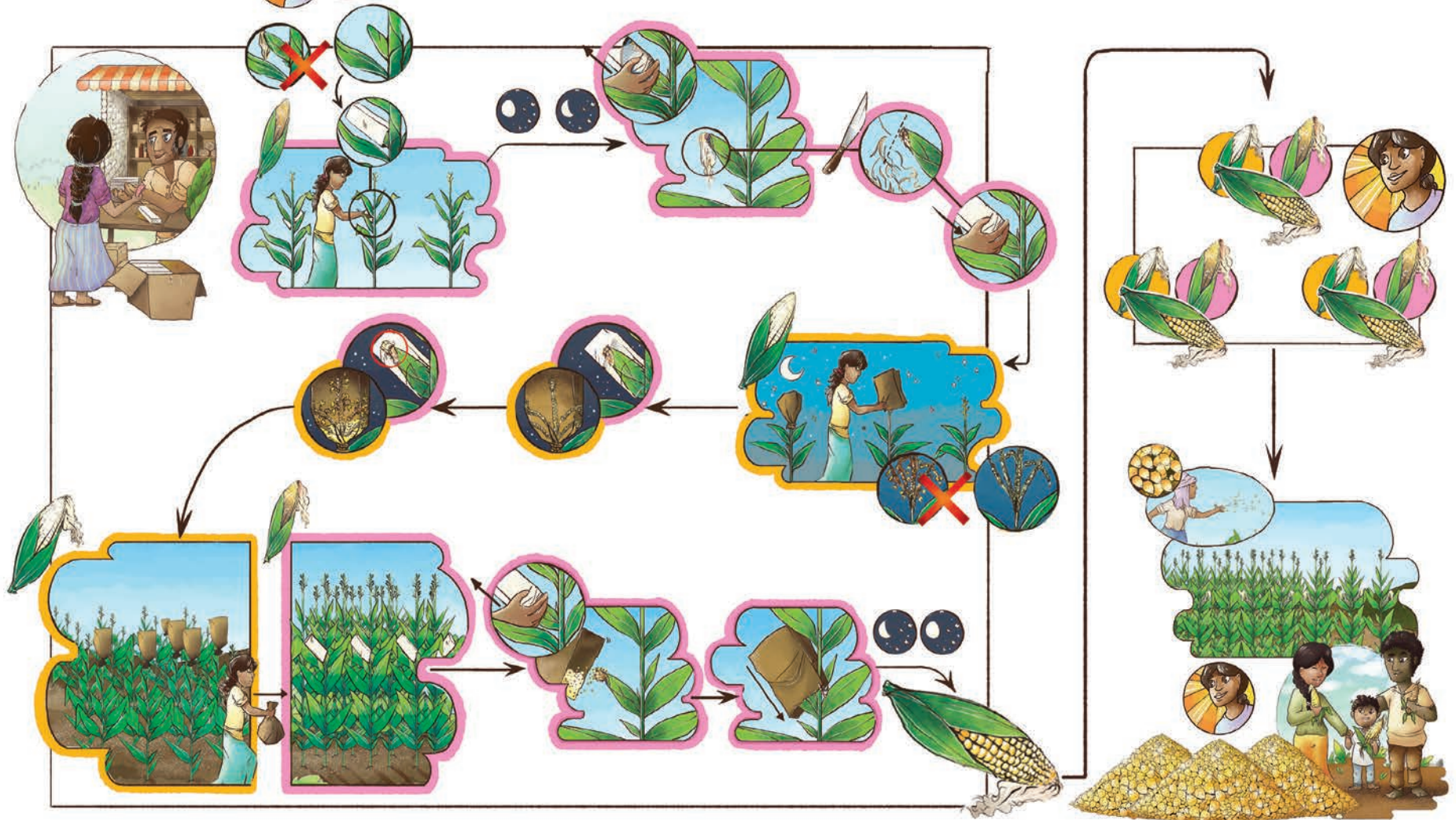
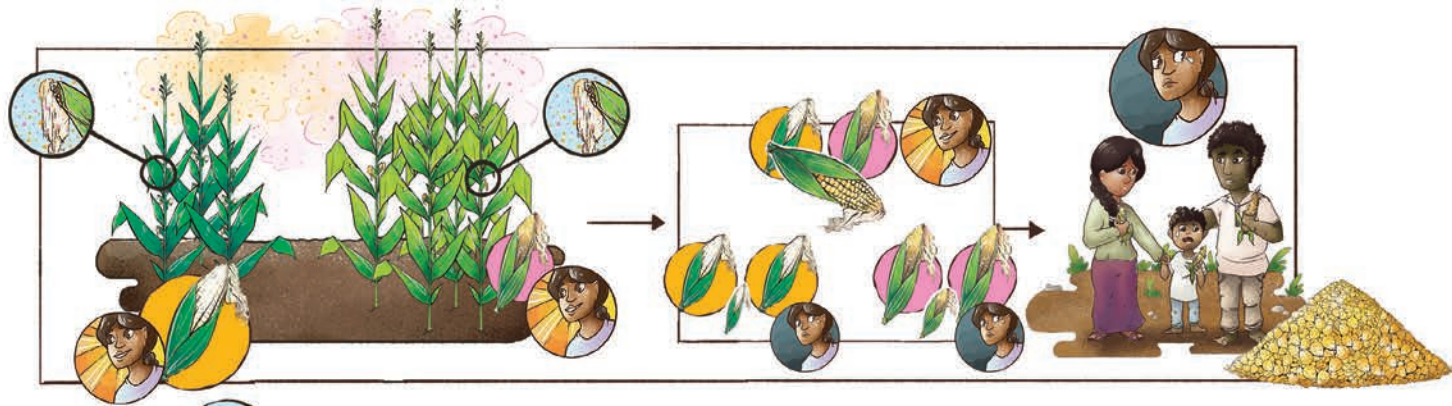


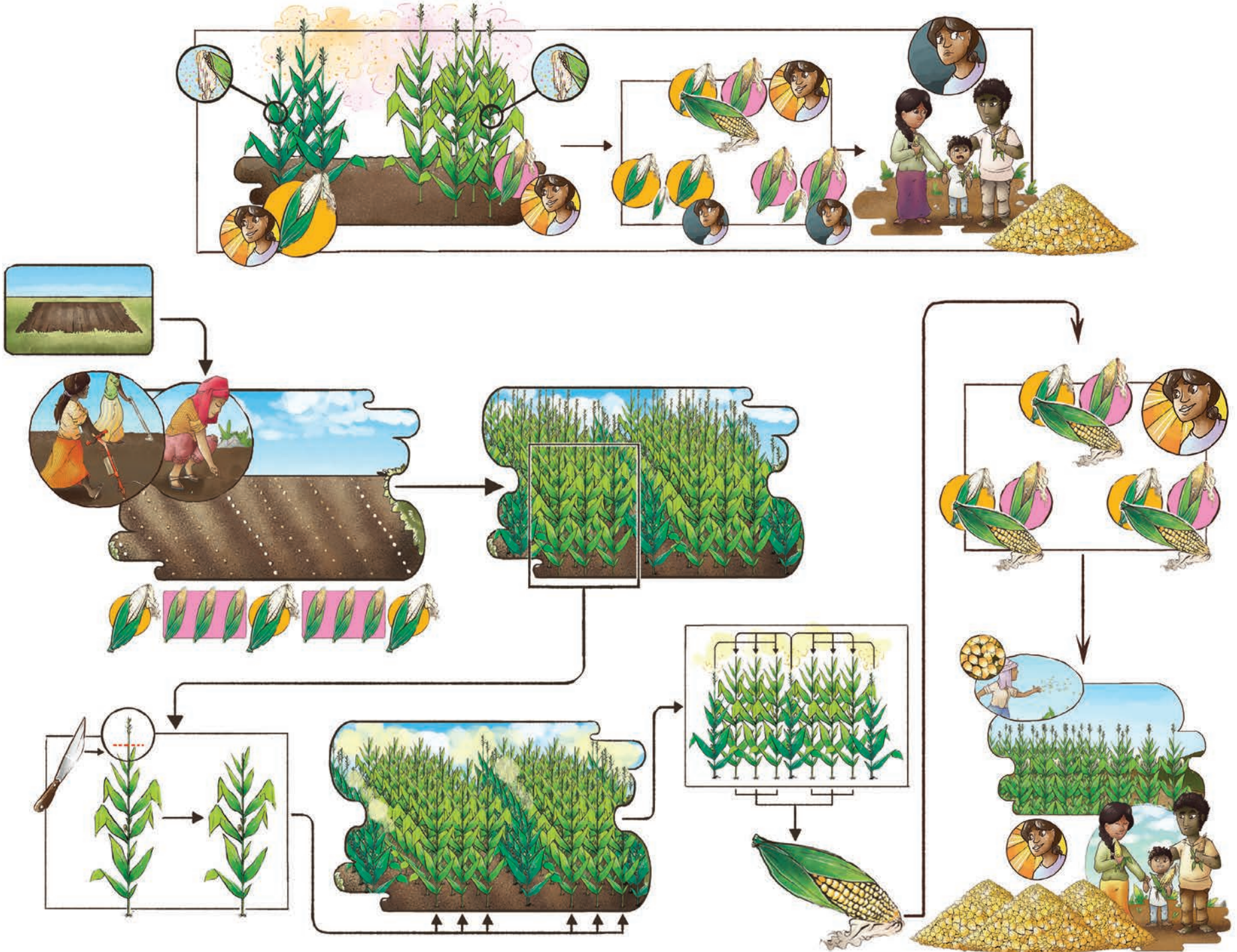


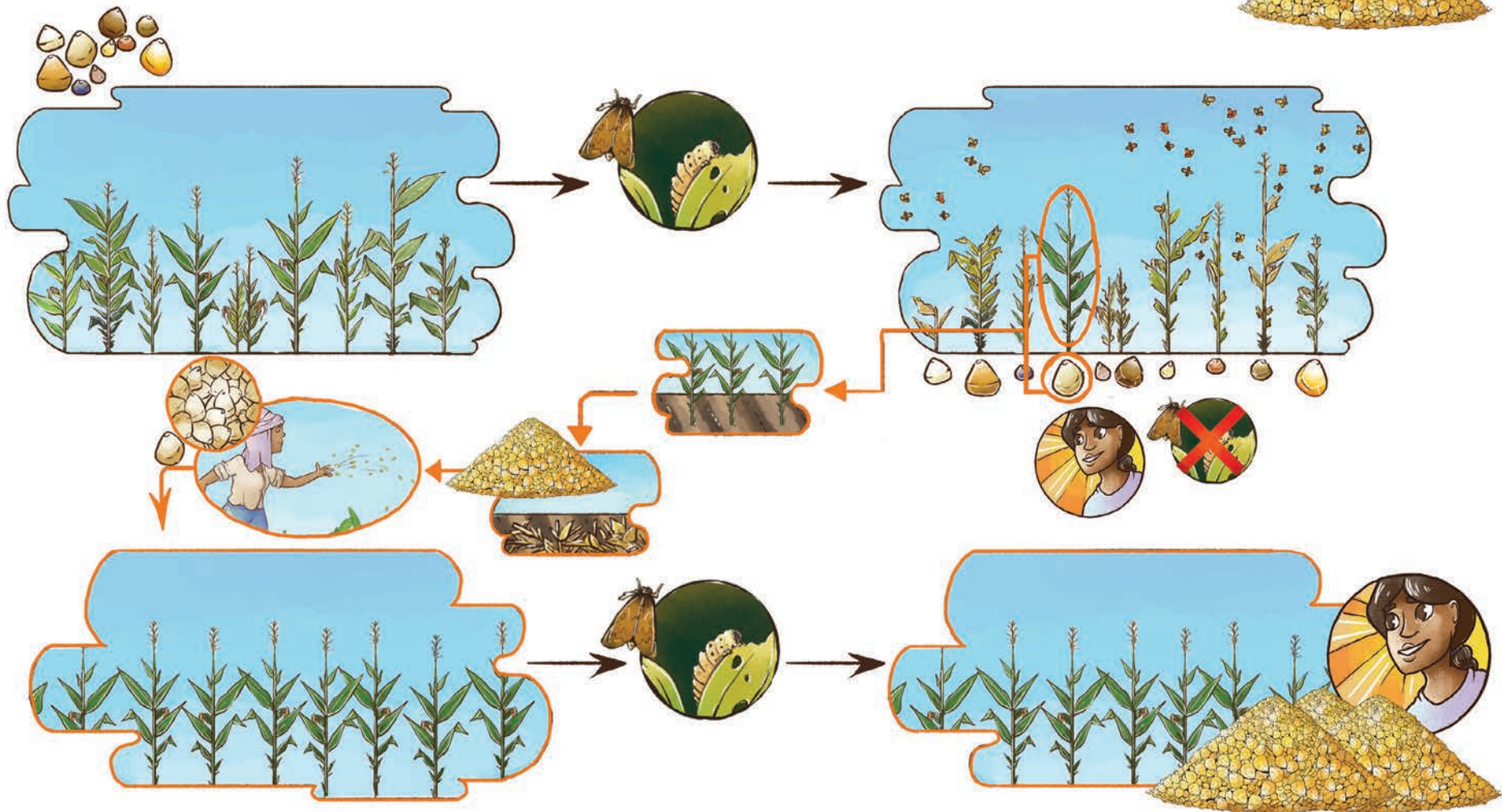
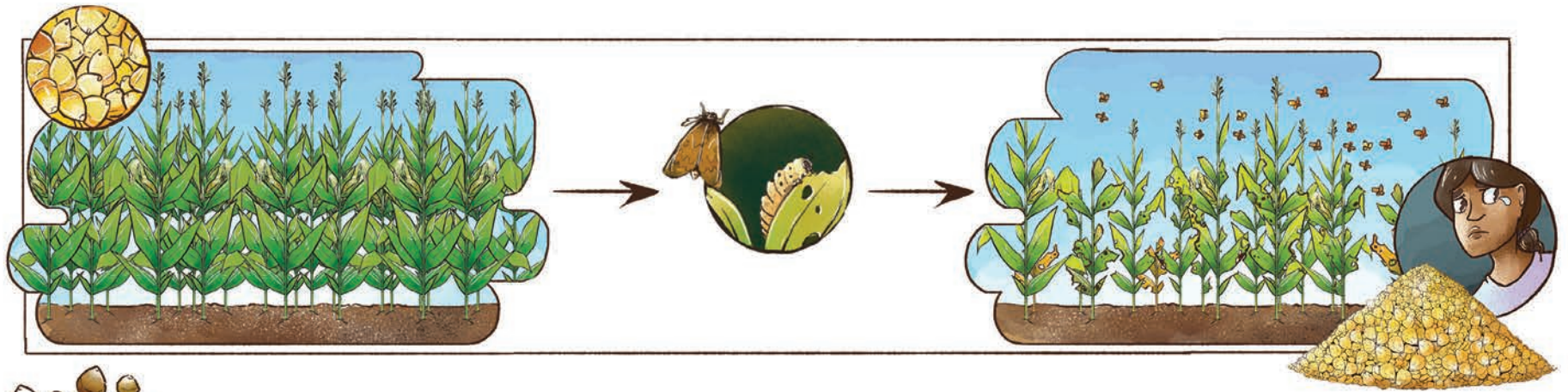


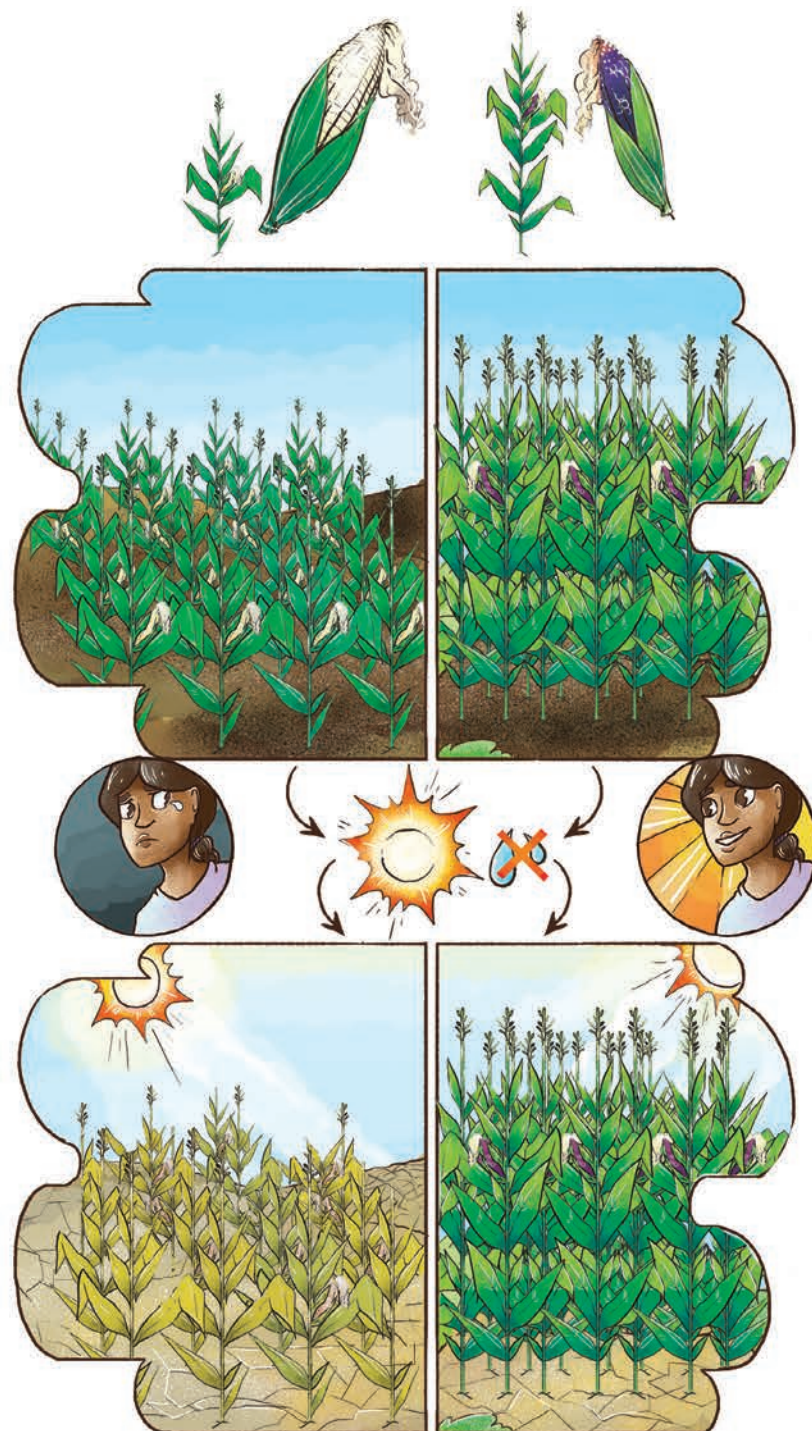
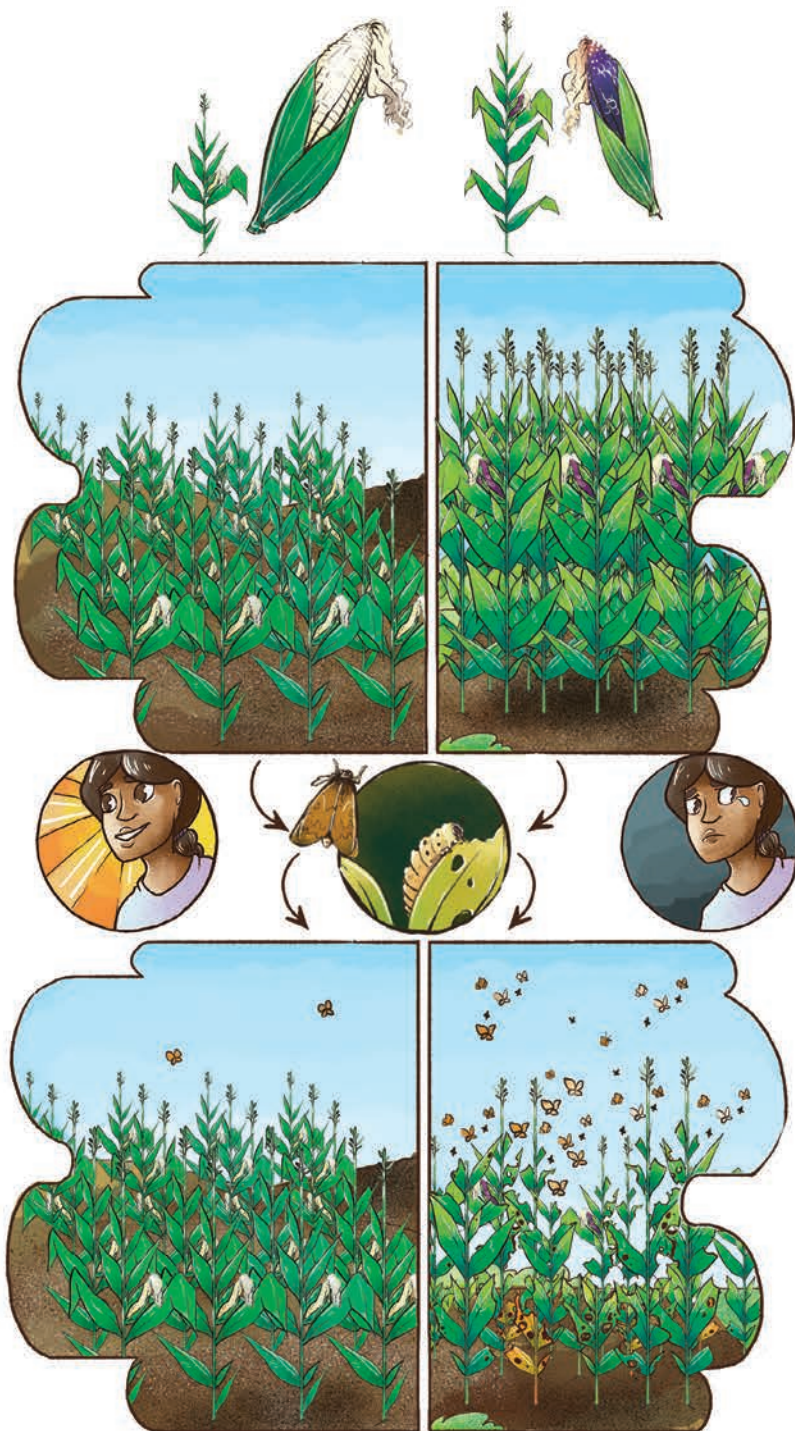
Chapter 12: Crop Breeding

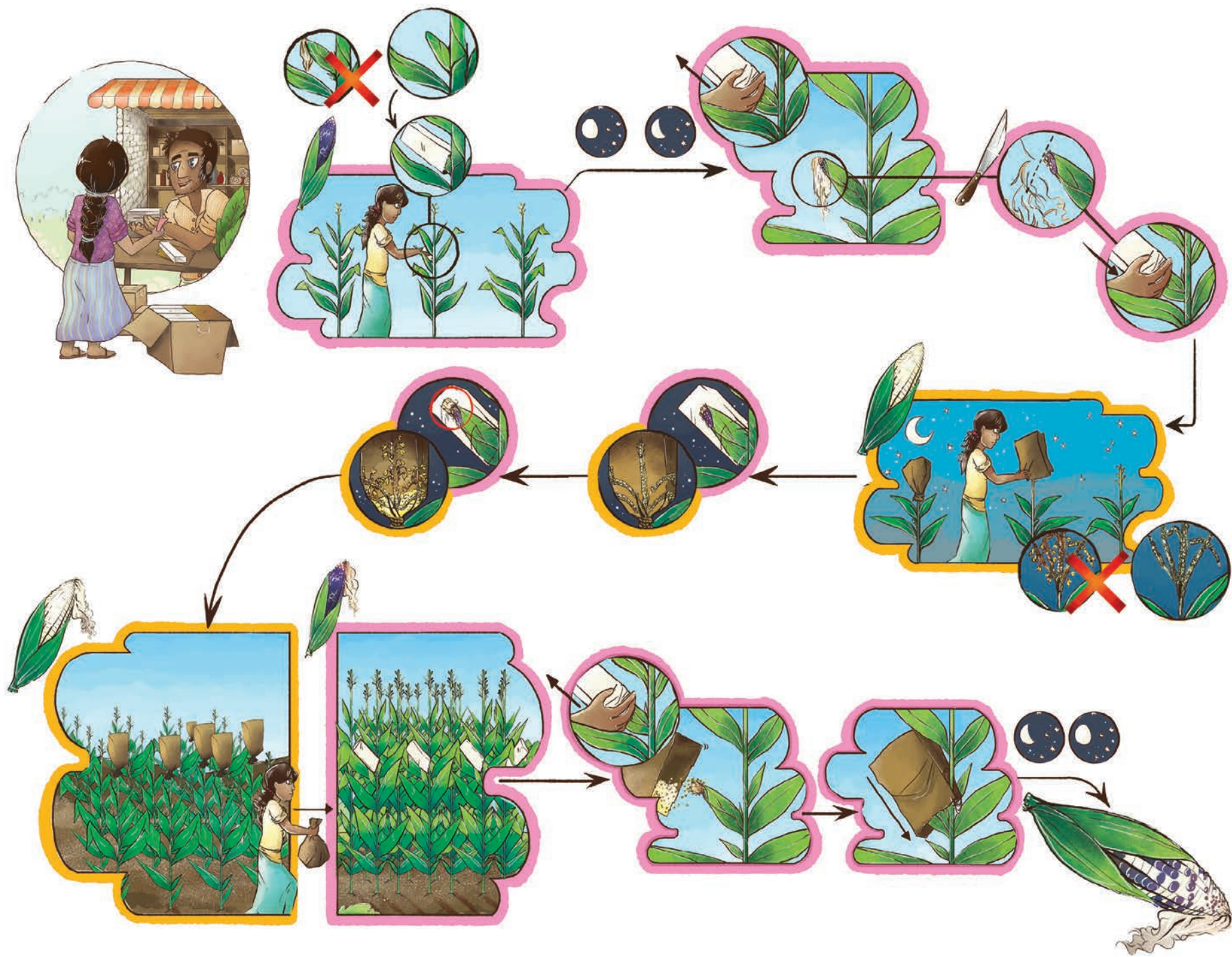


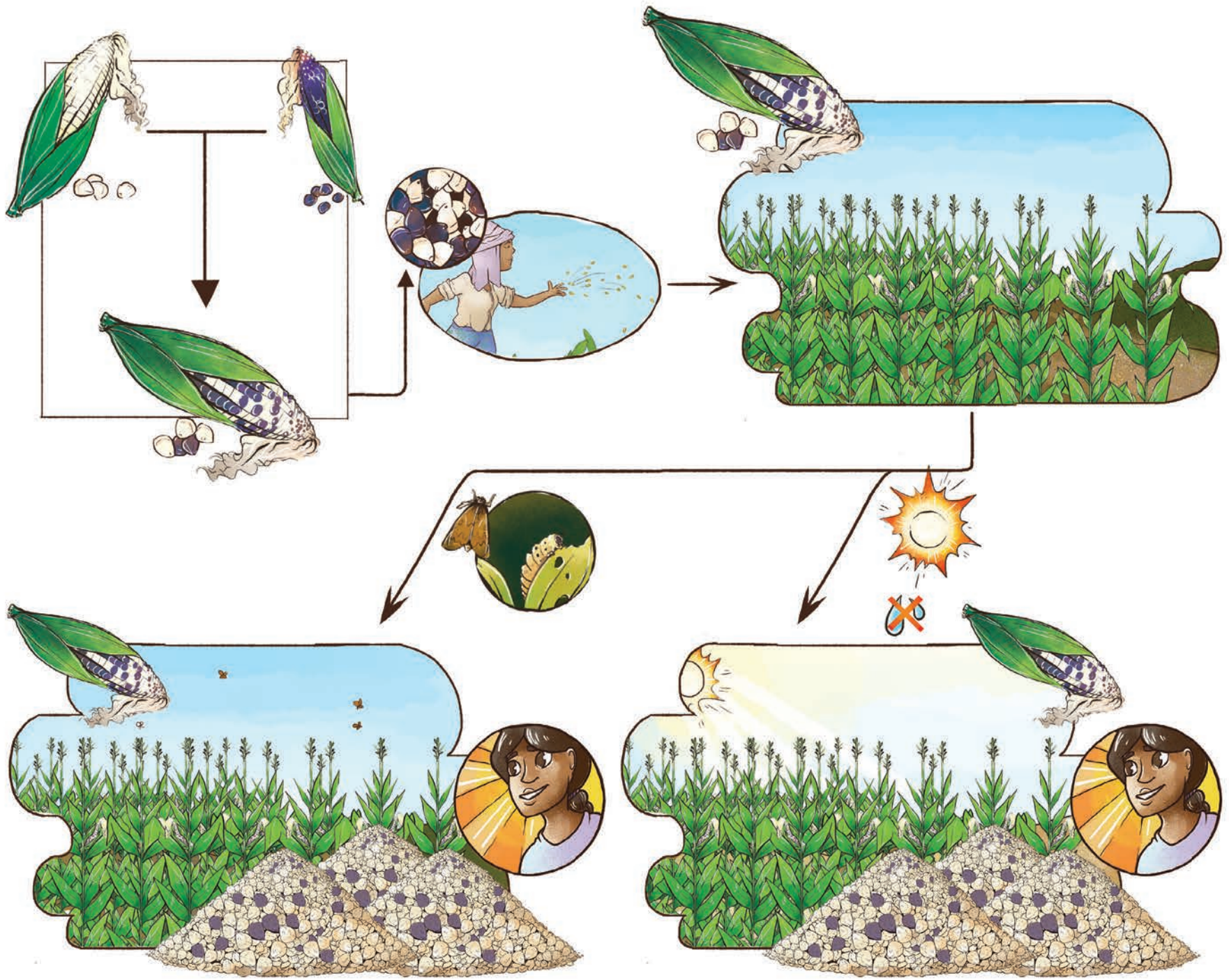


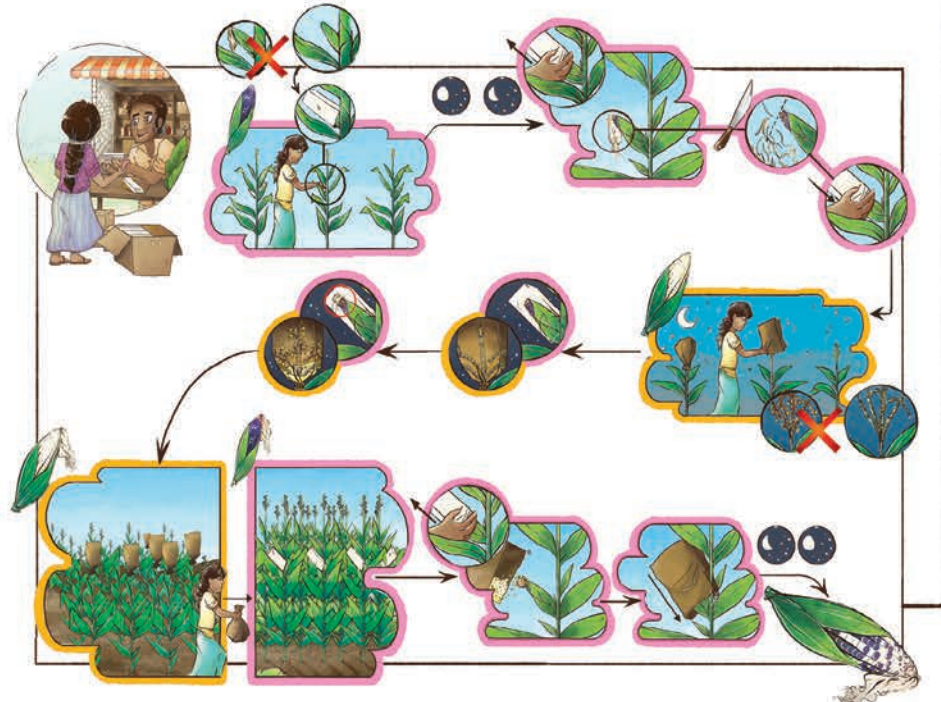
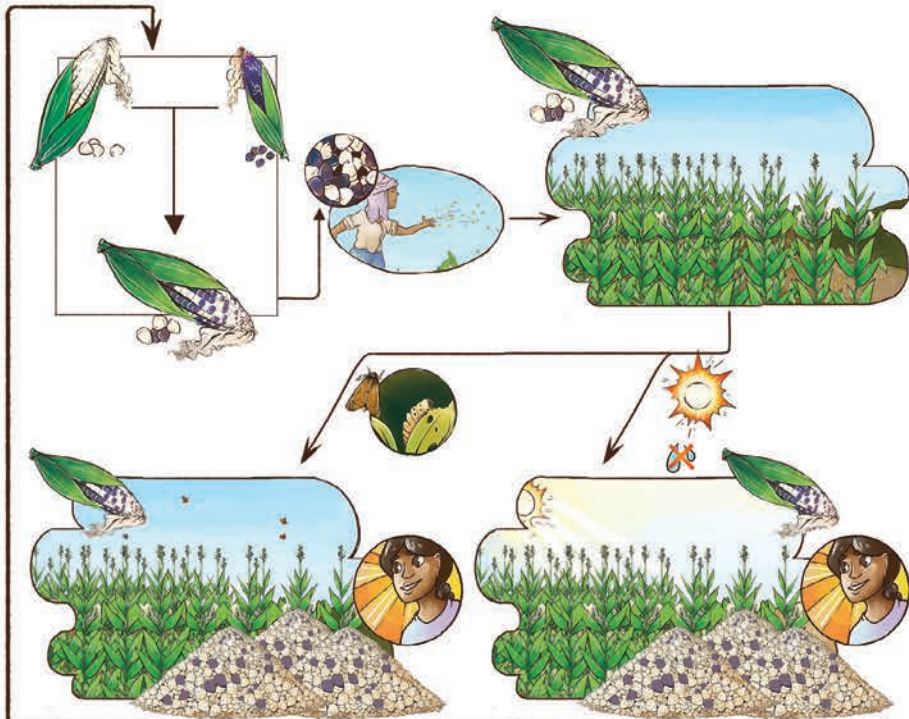
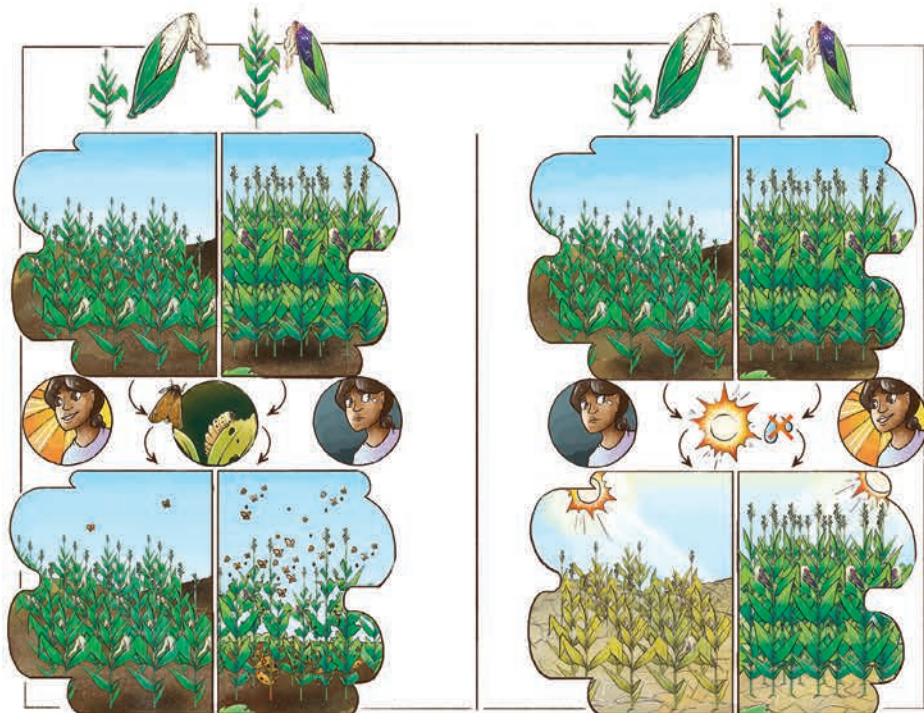


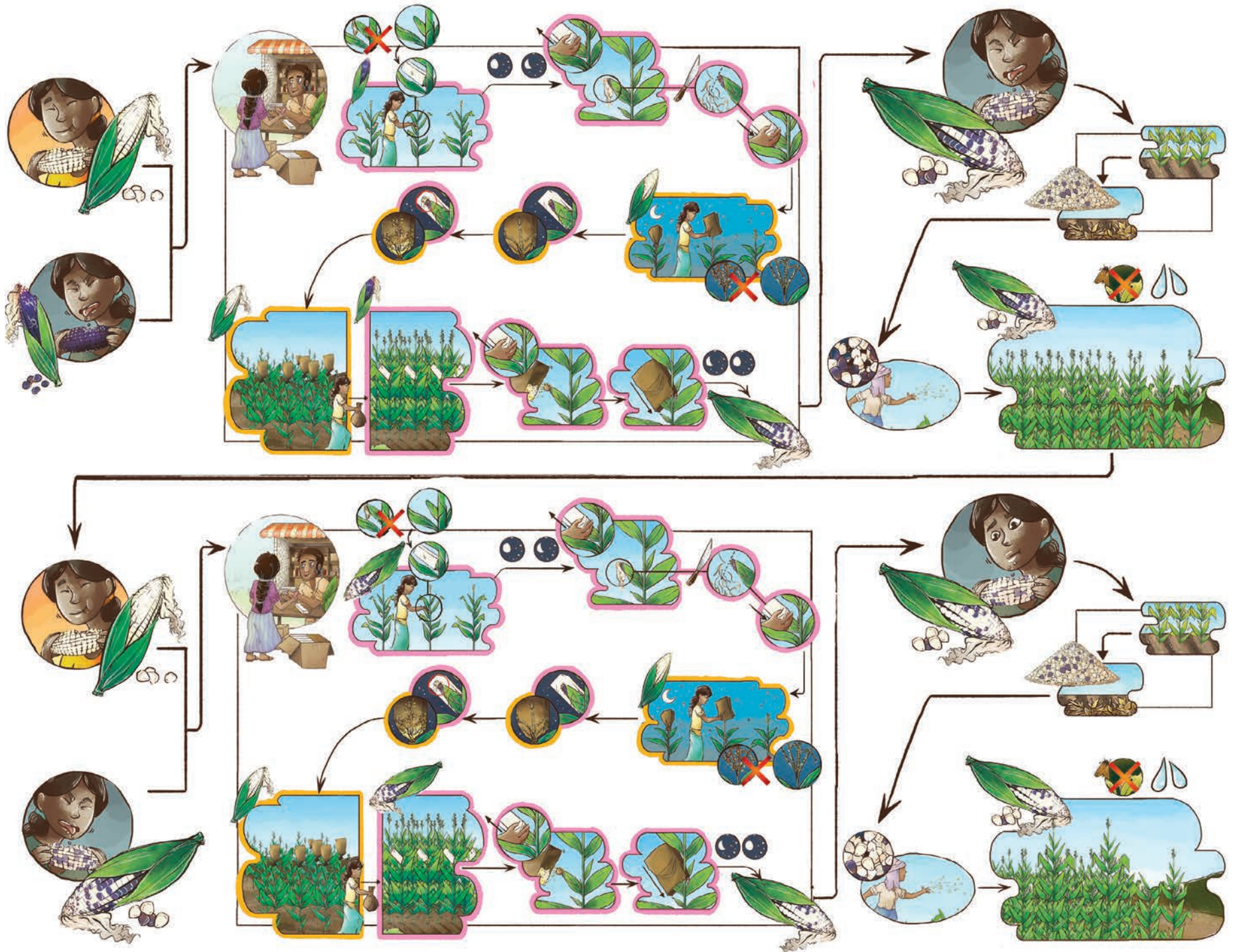


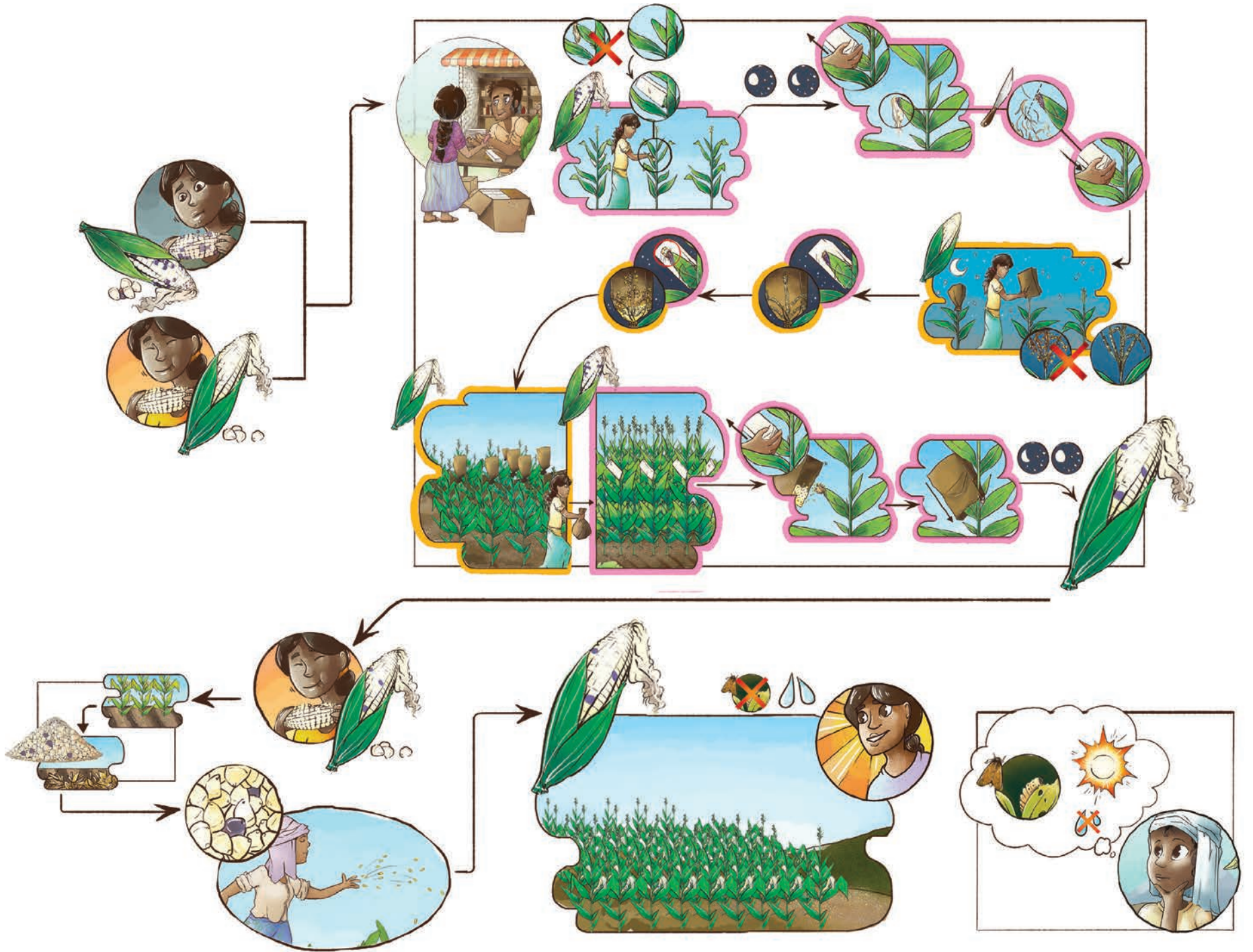


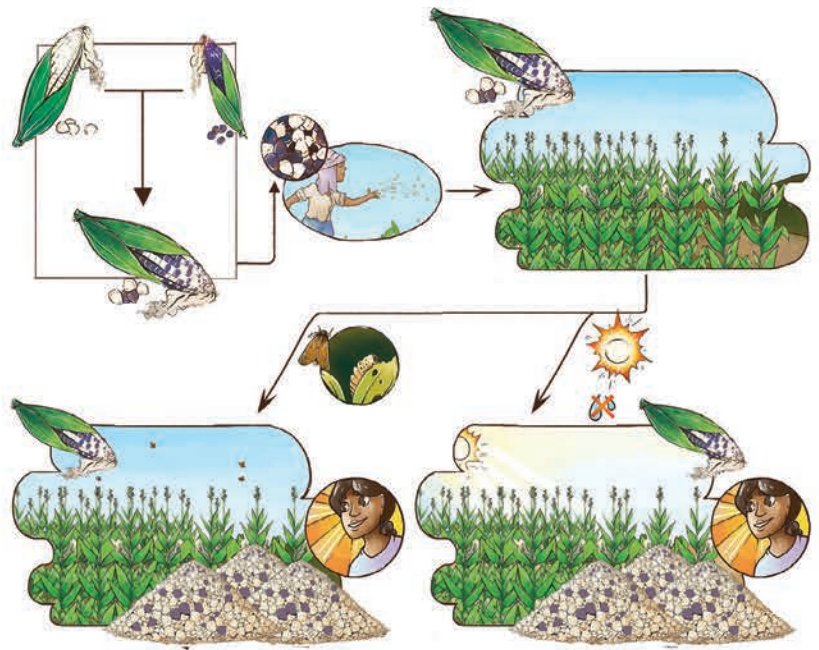
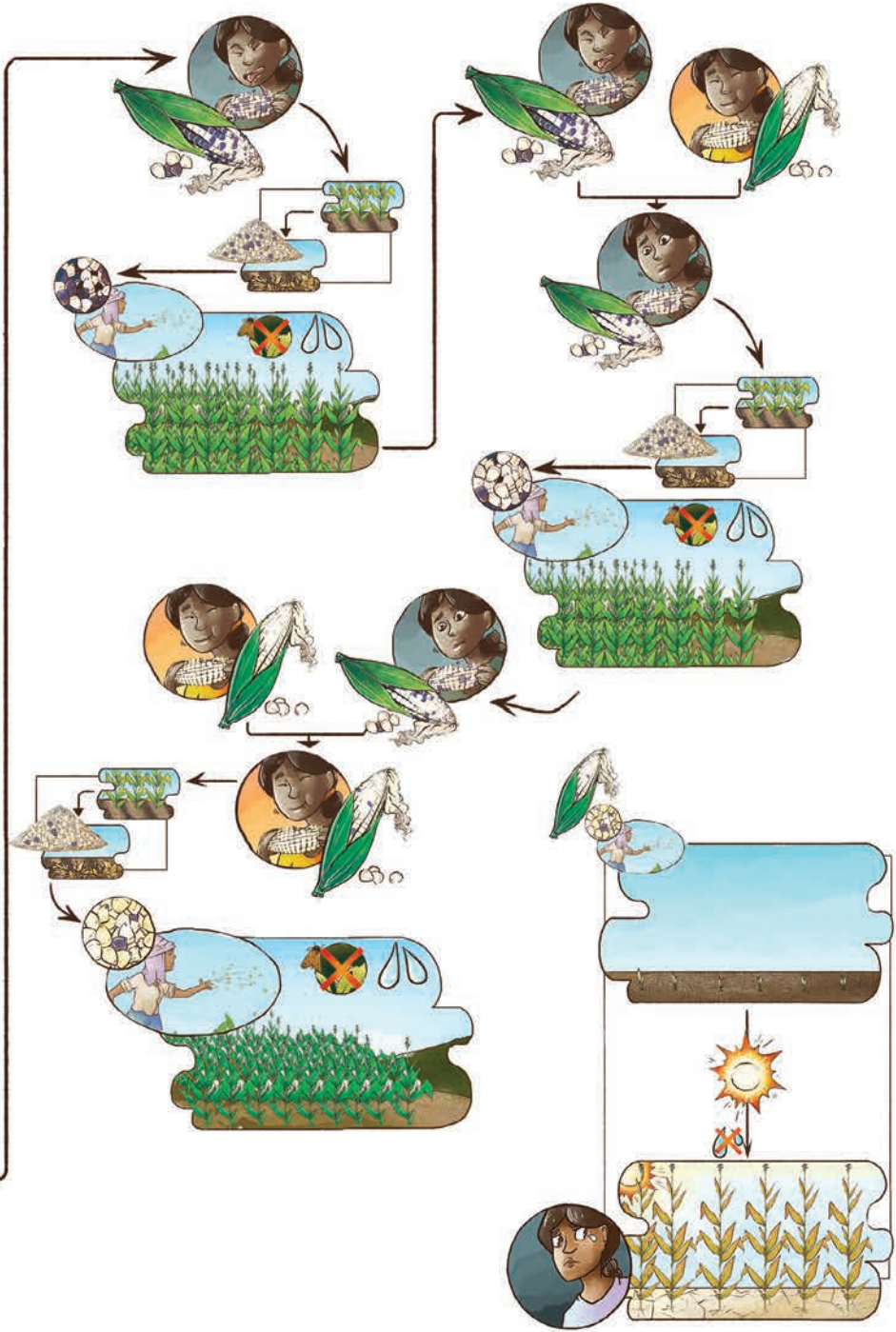
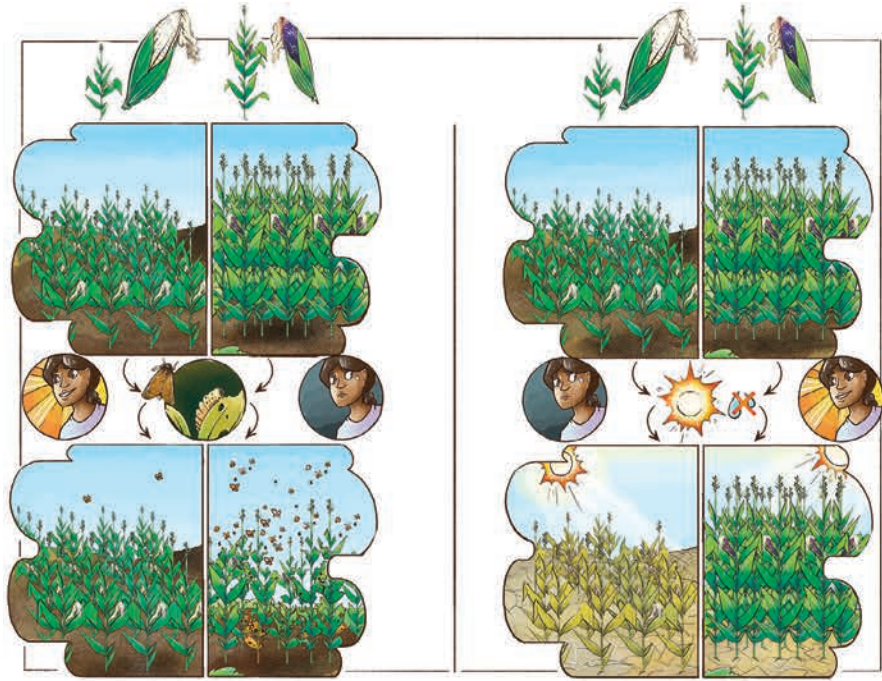


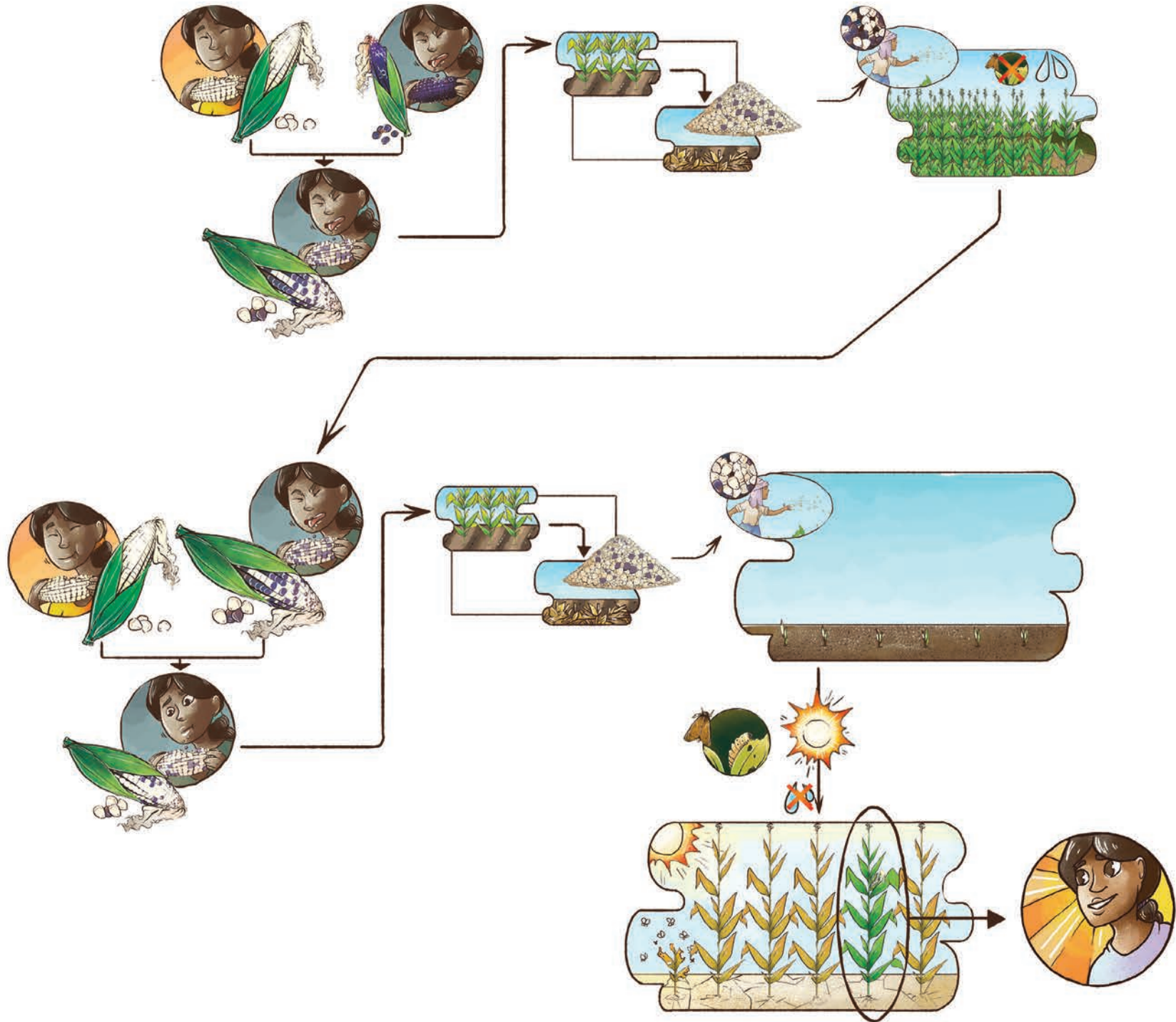


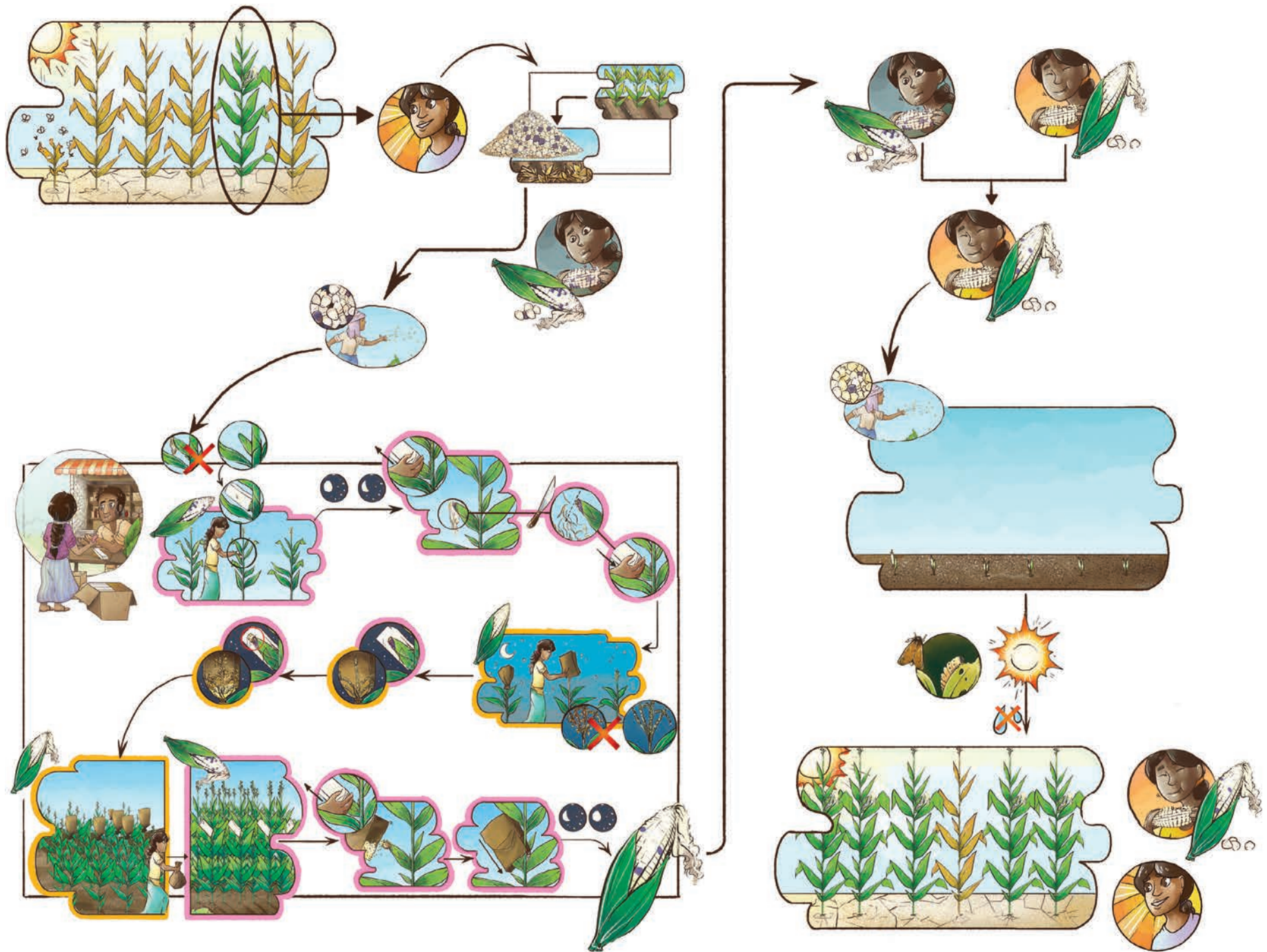




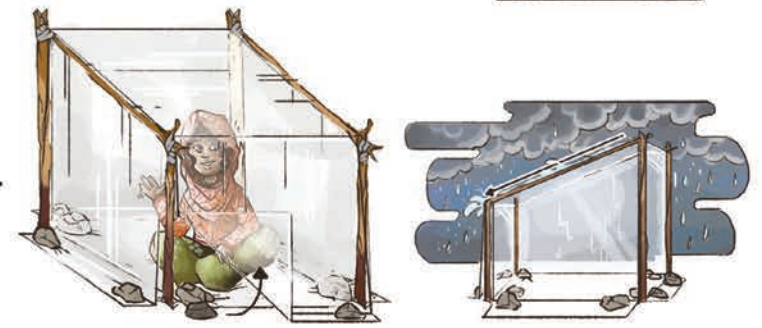
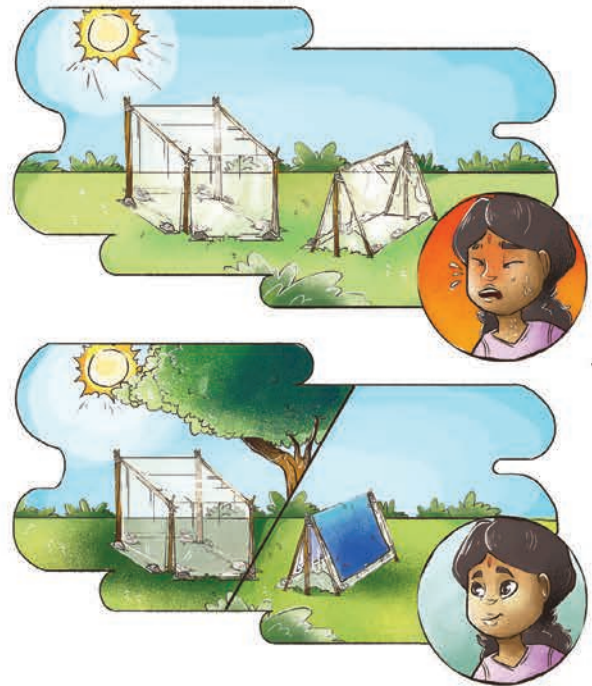
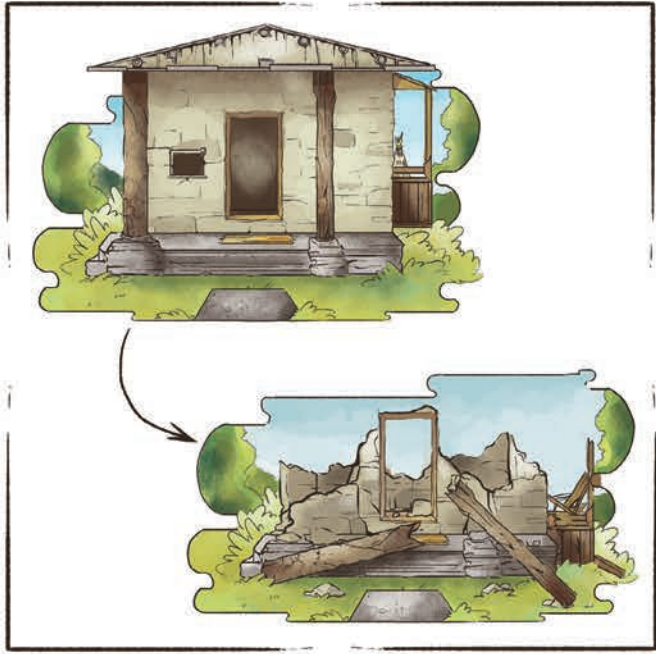


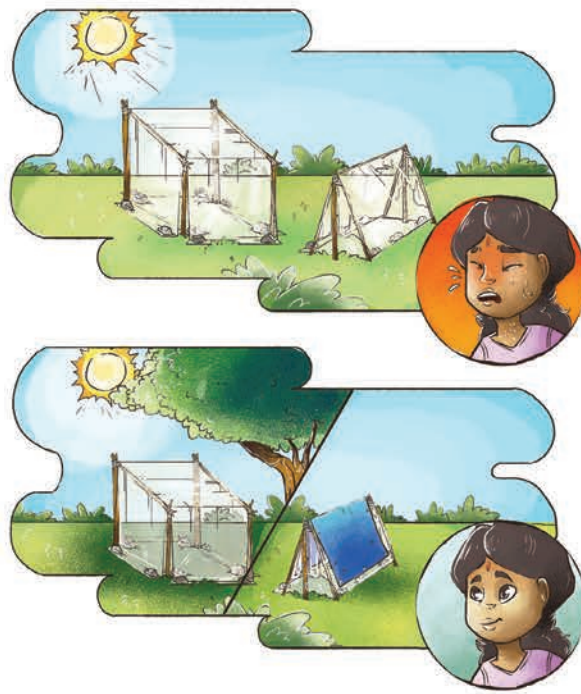
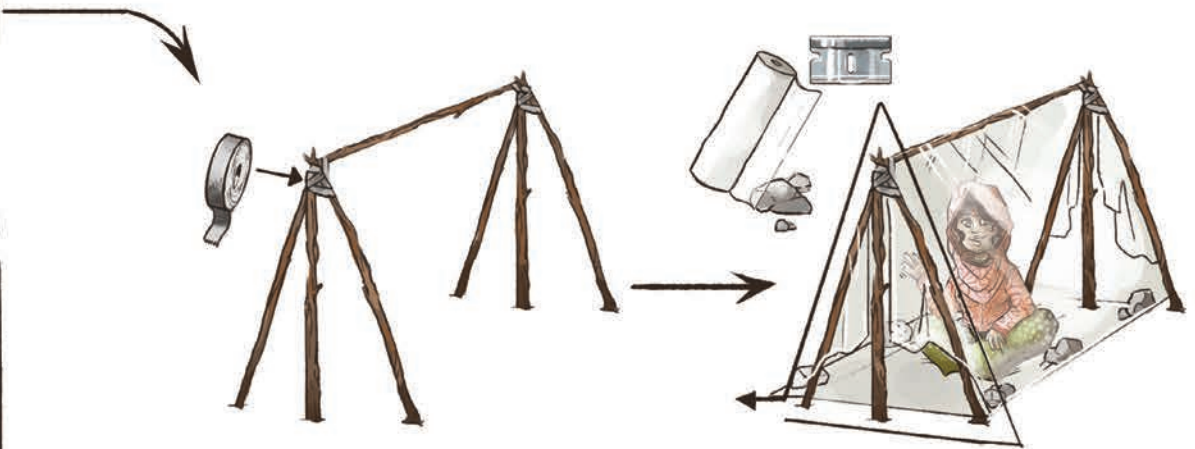
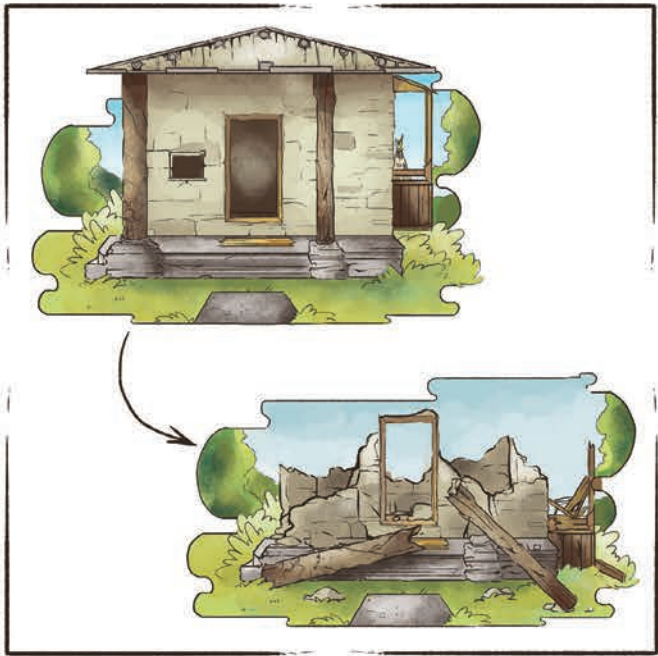


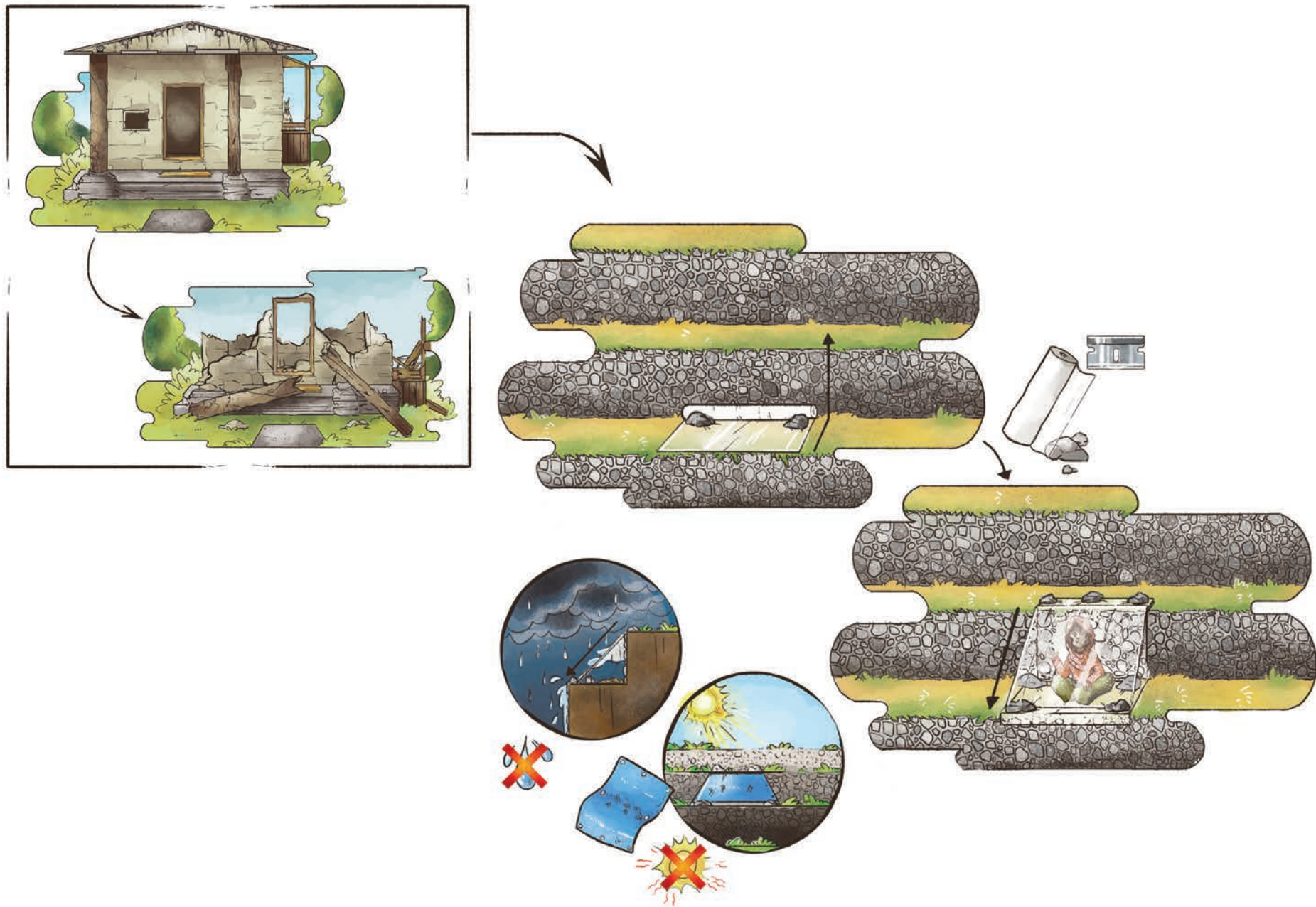




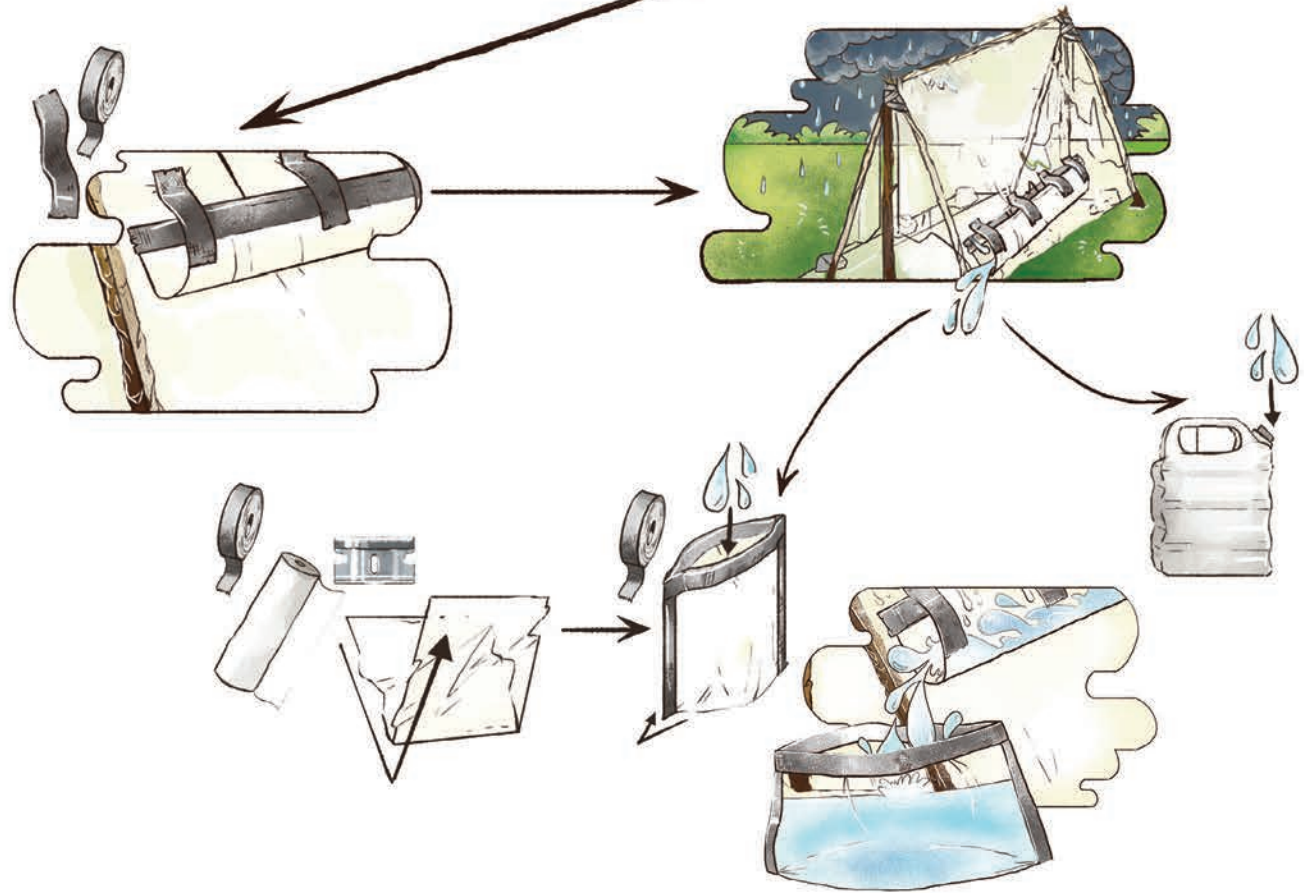
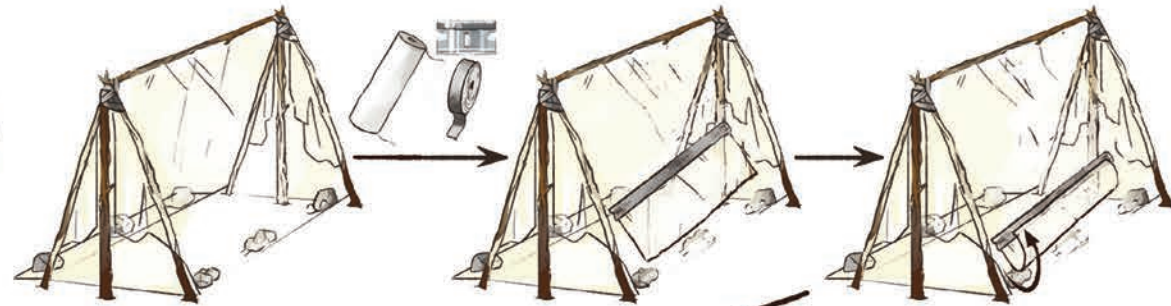
Chapter 13: Disaster Relief

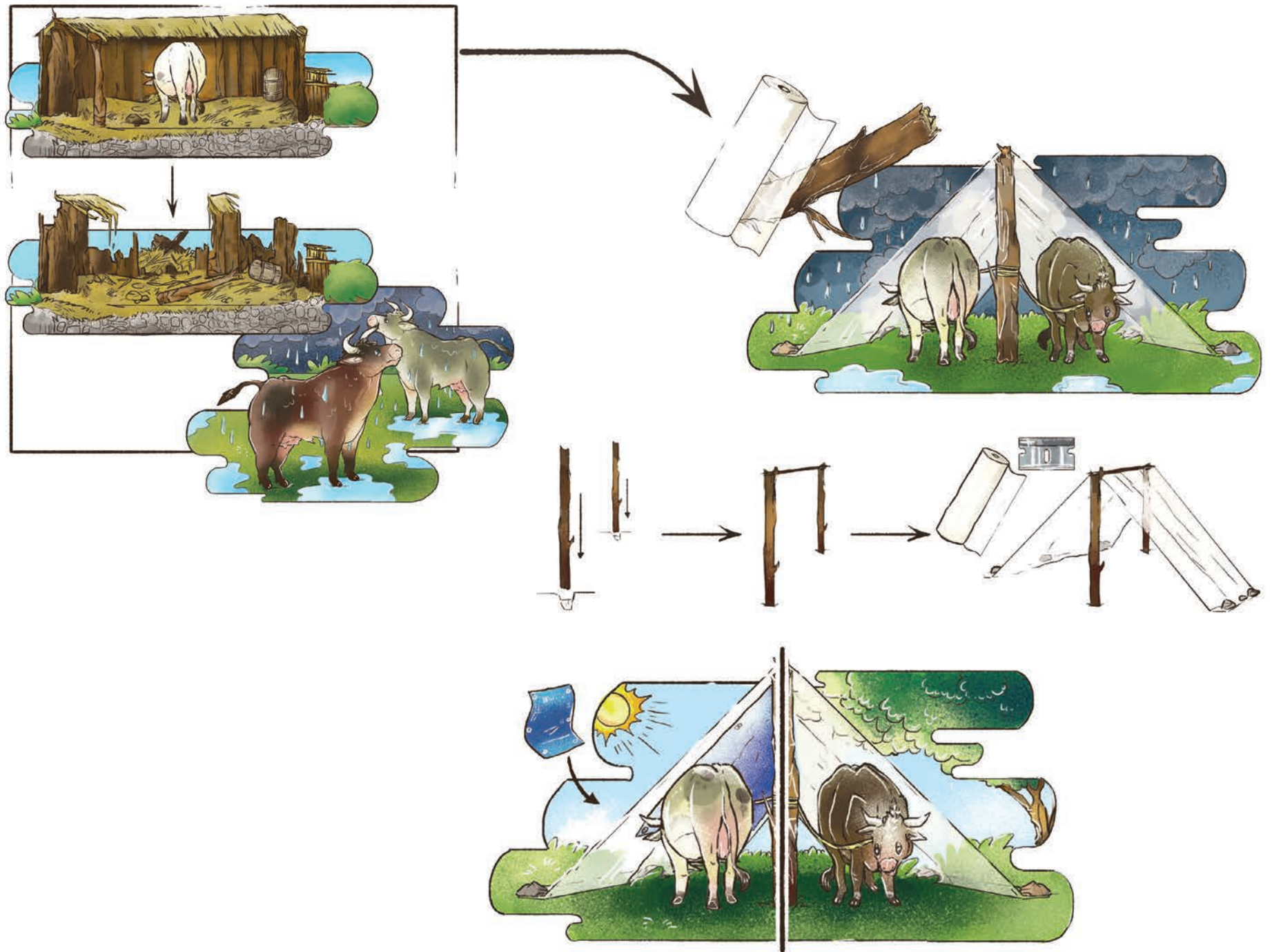


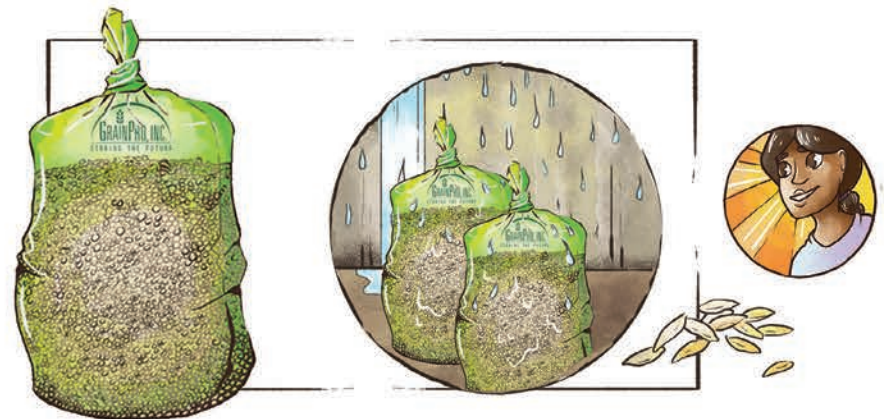
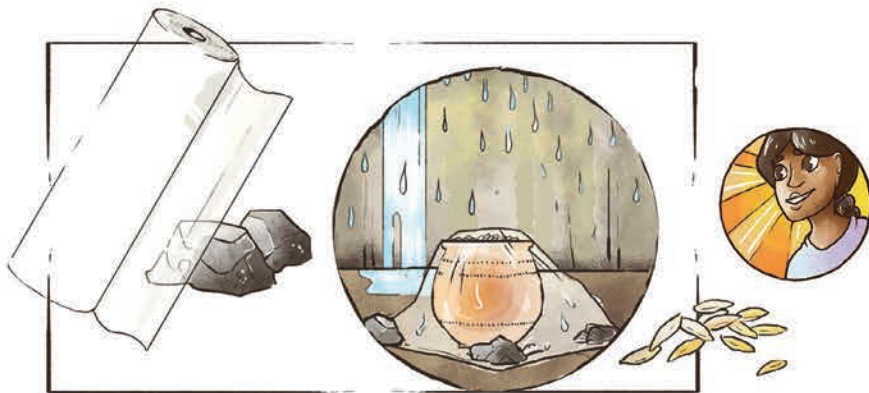
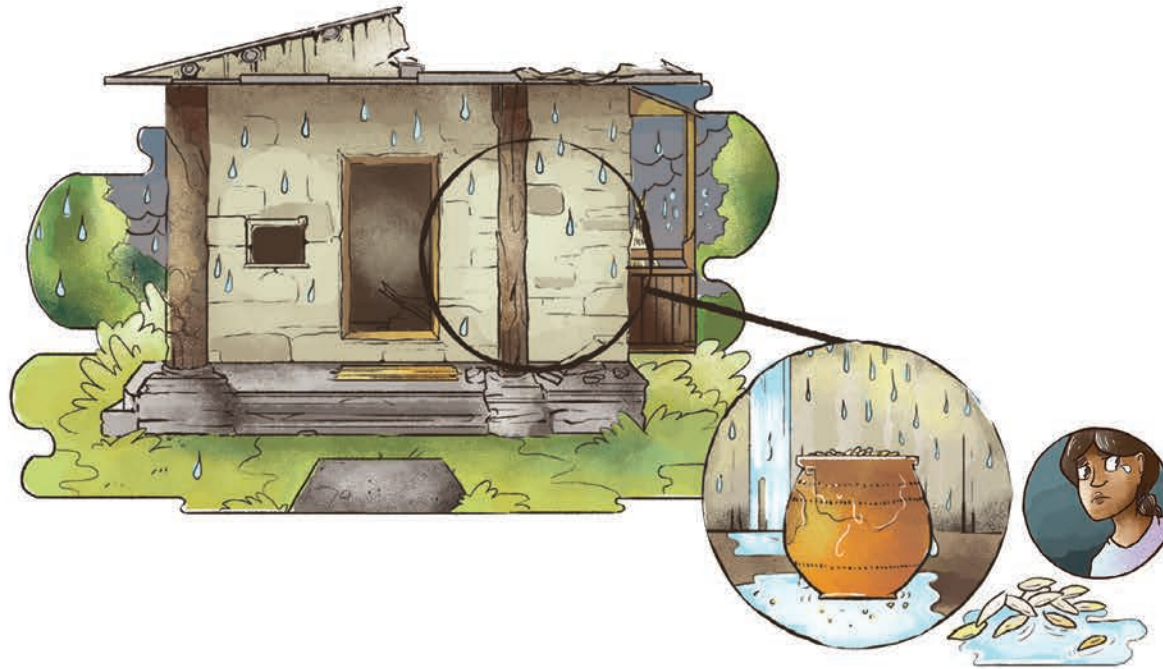


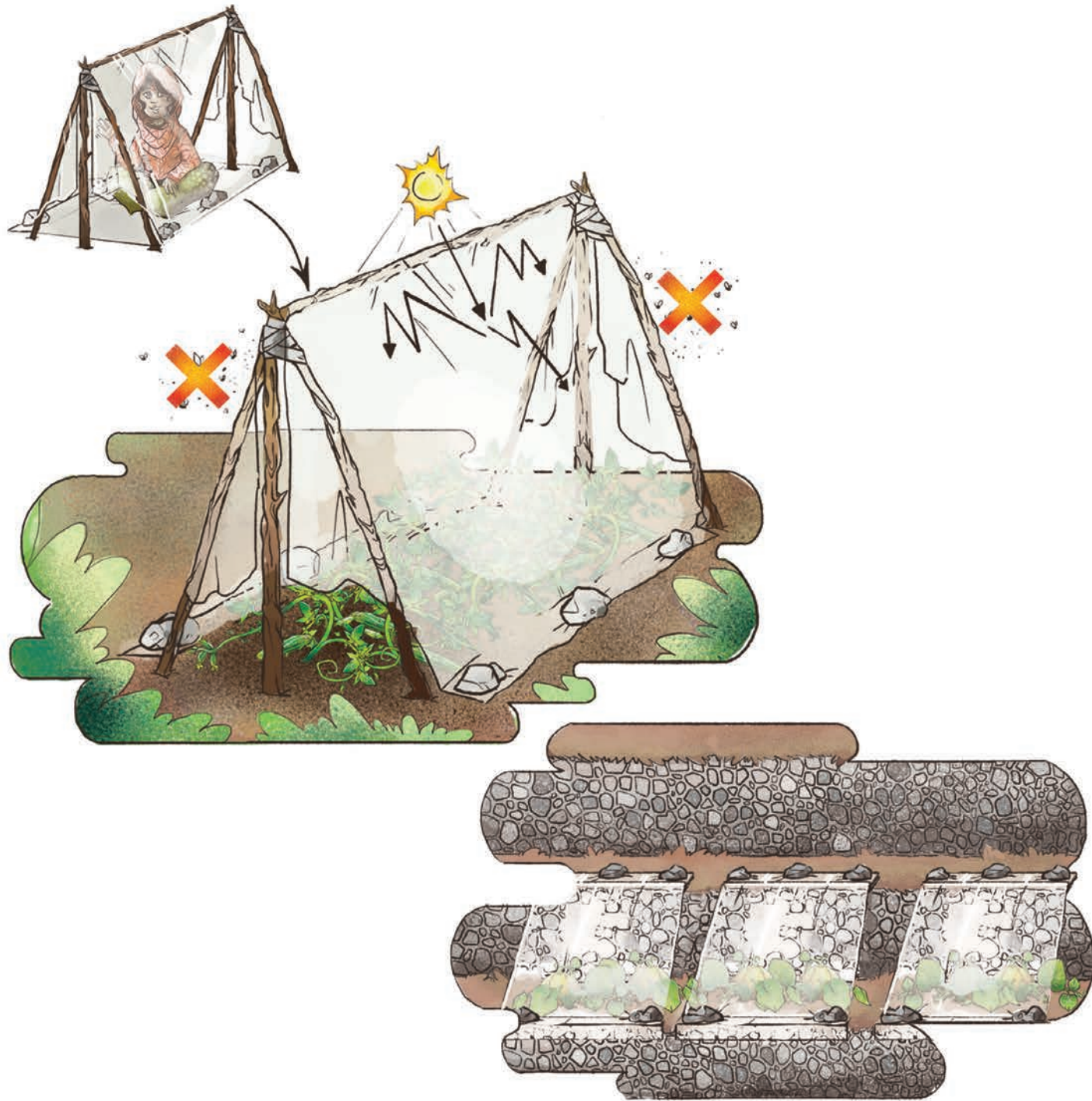


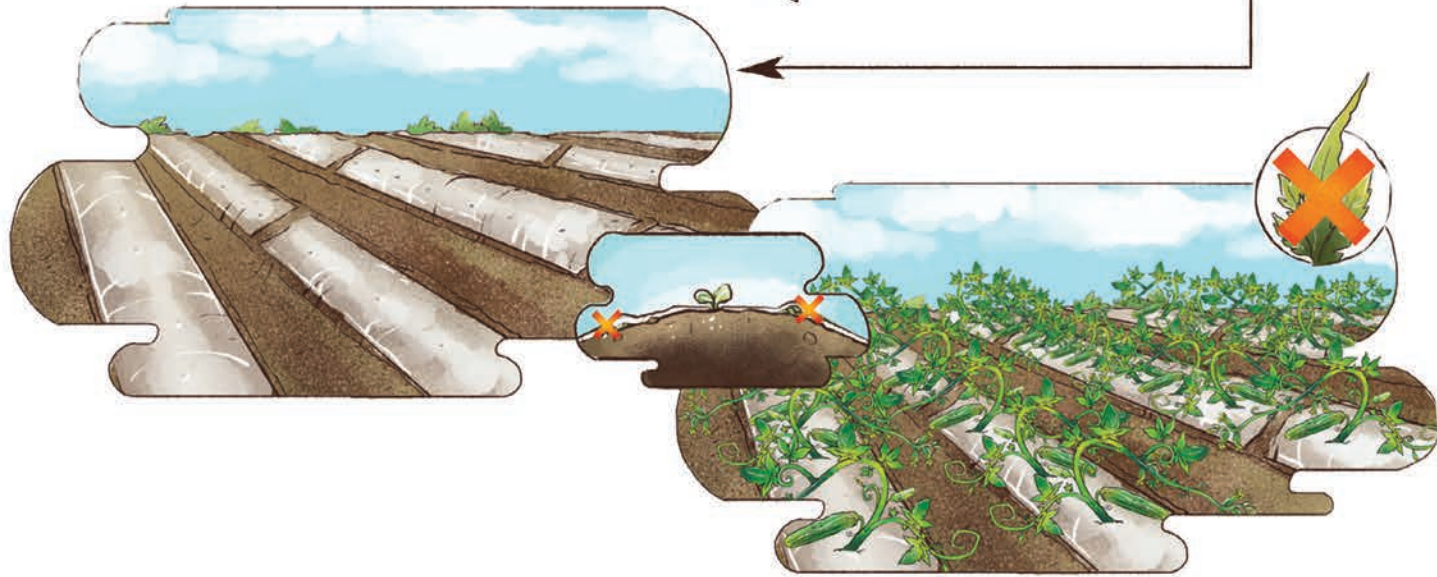
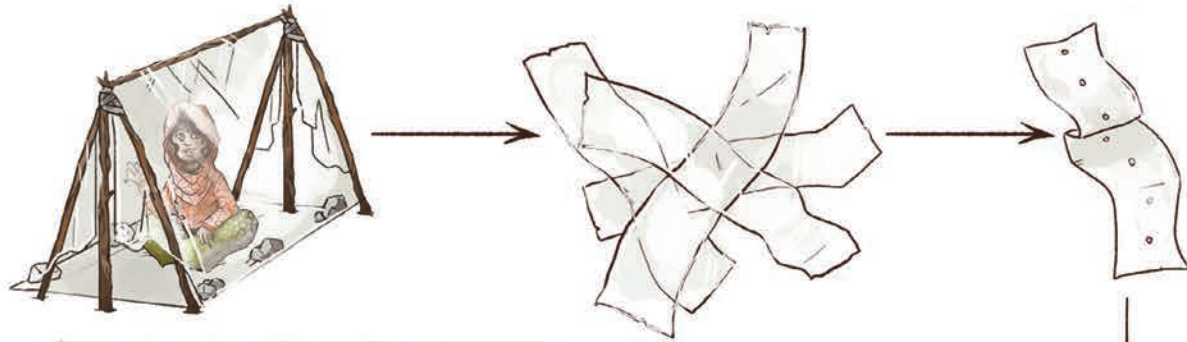


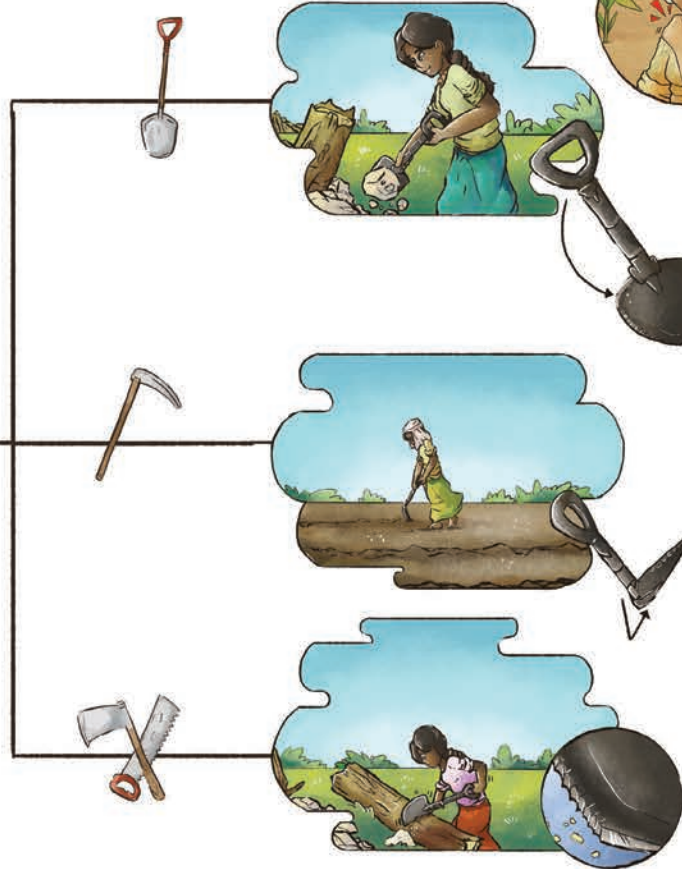
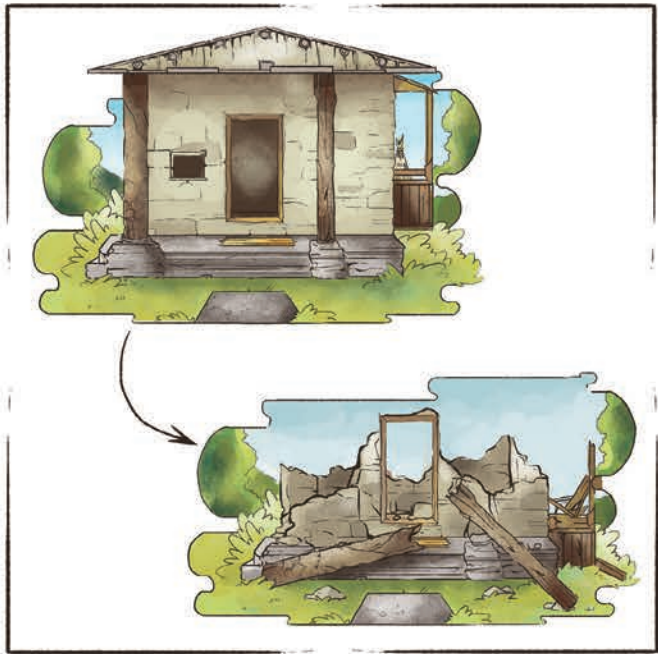


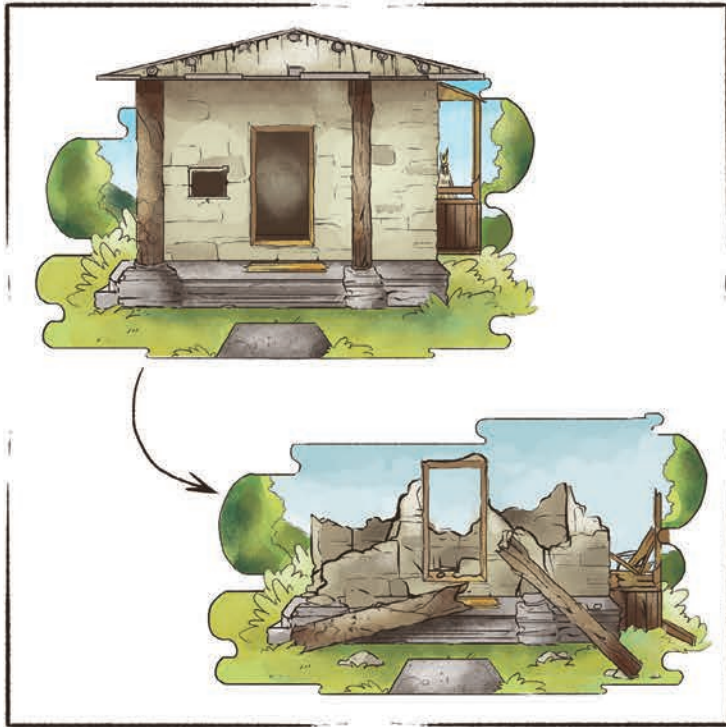


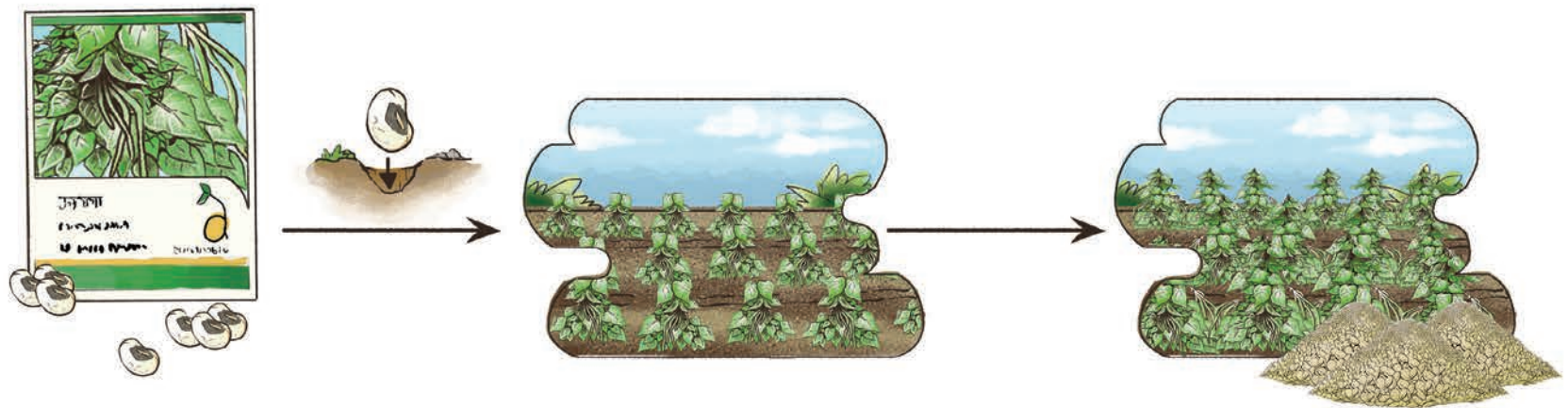
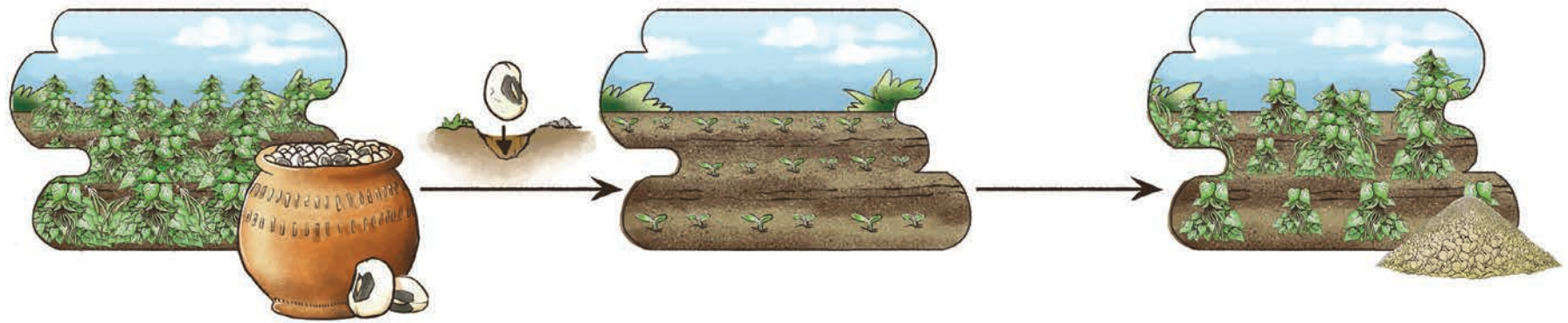


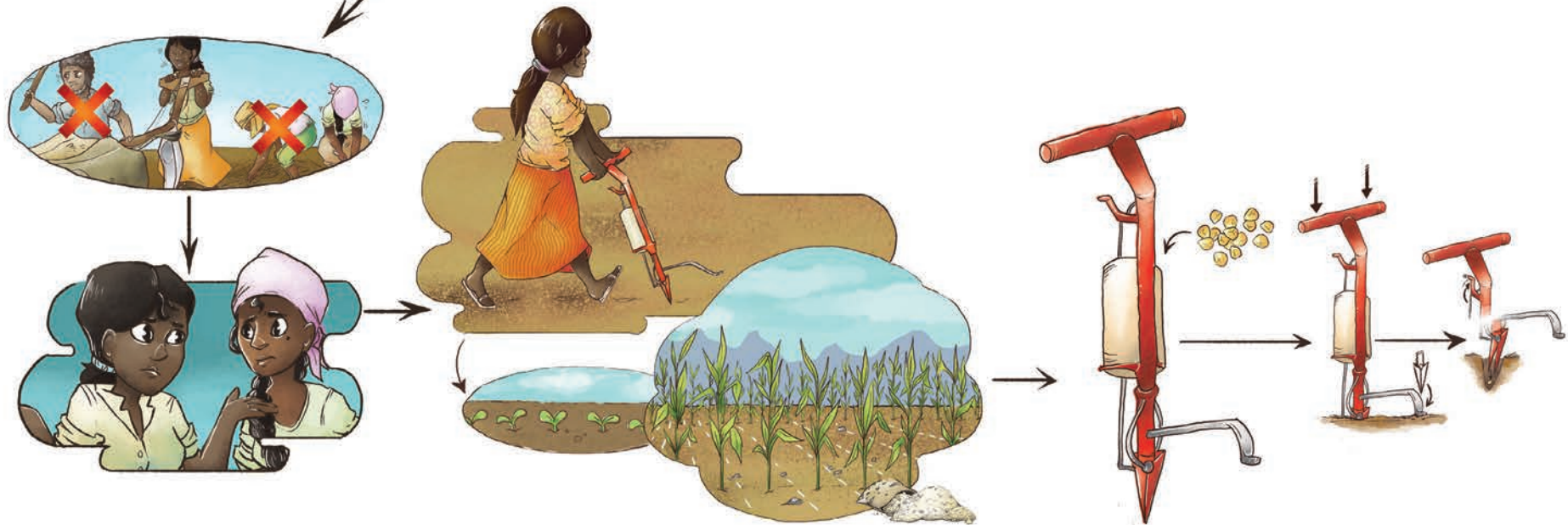
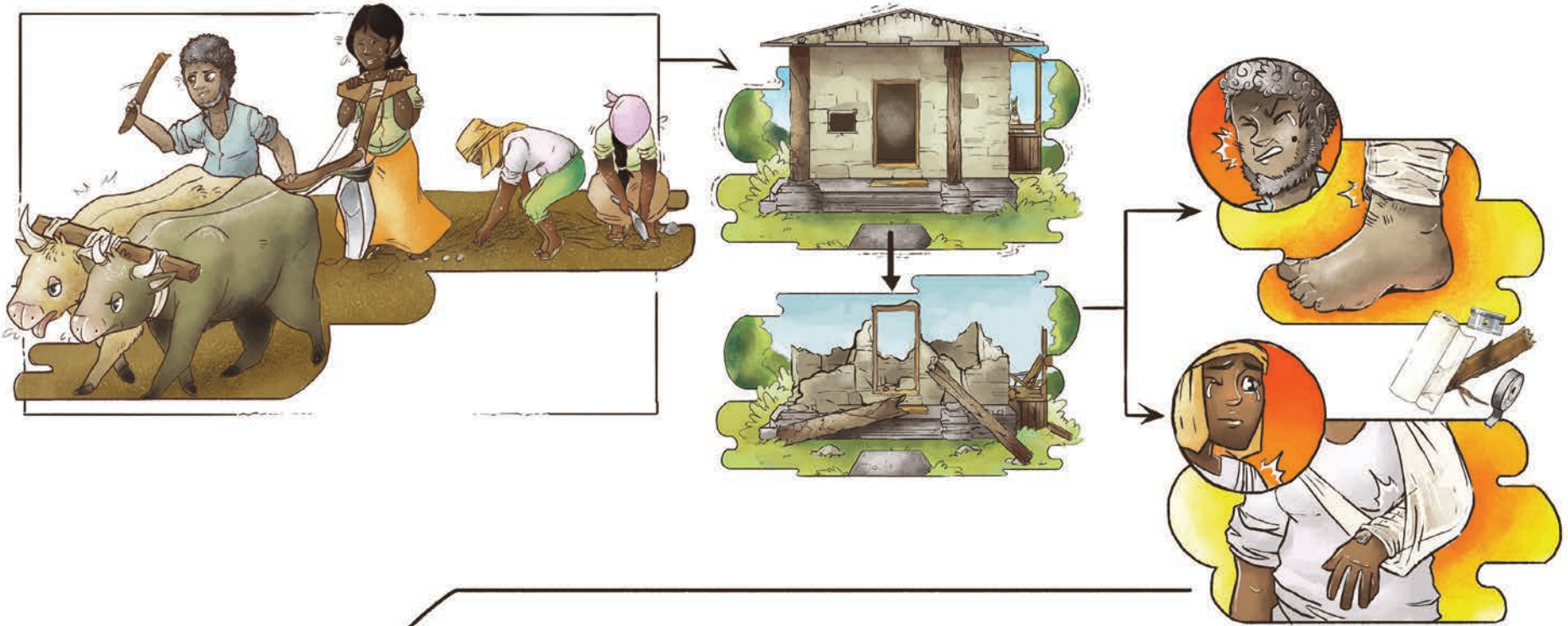


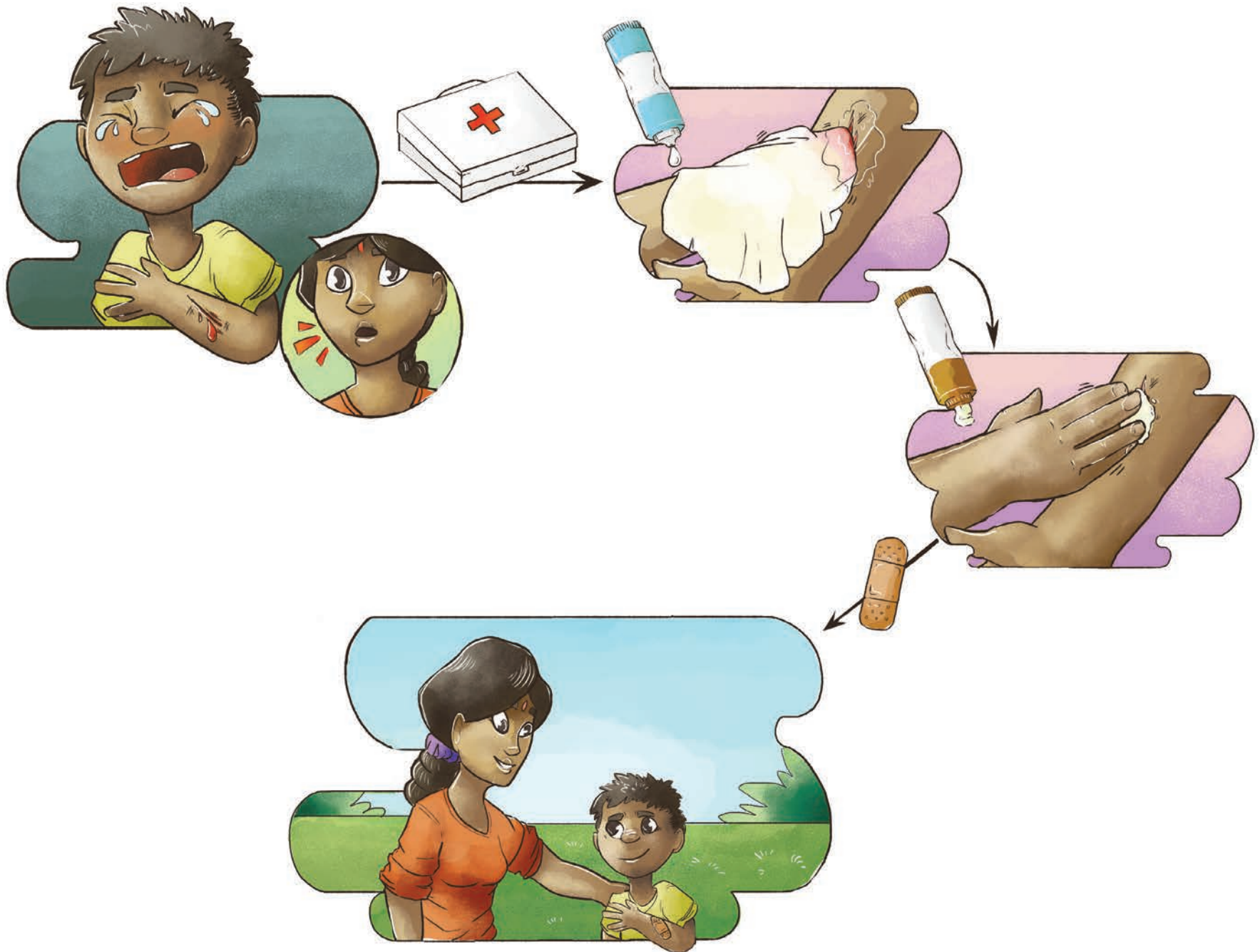












Bonus Chapter: *Alternate Versions*

