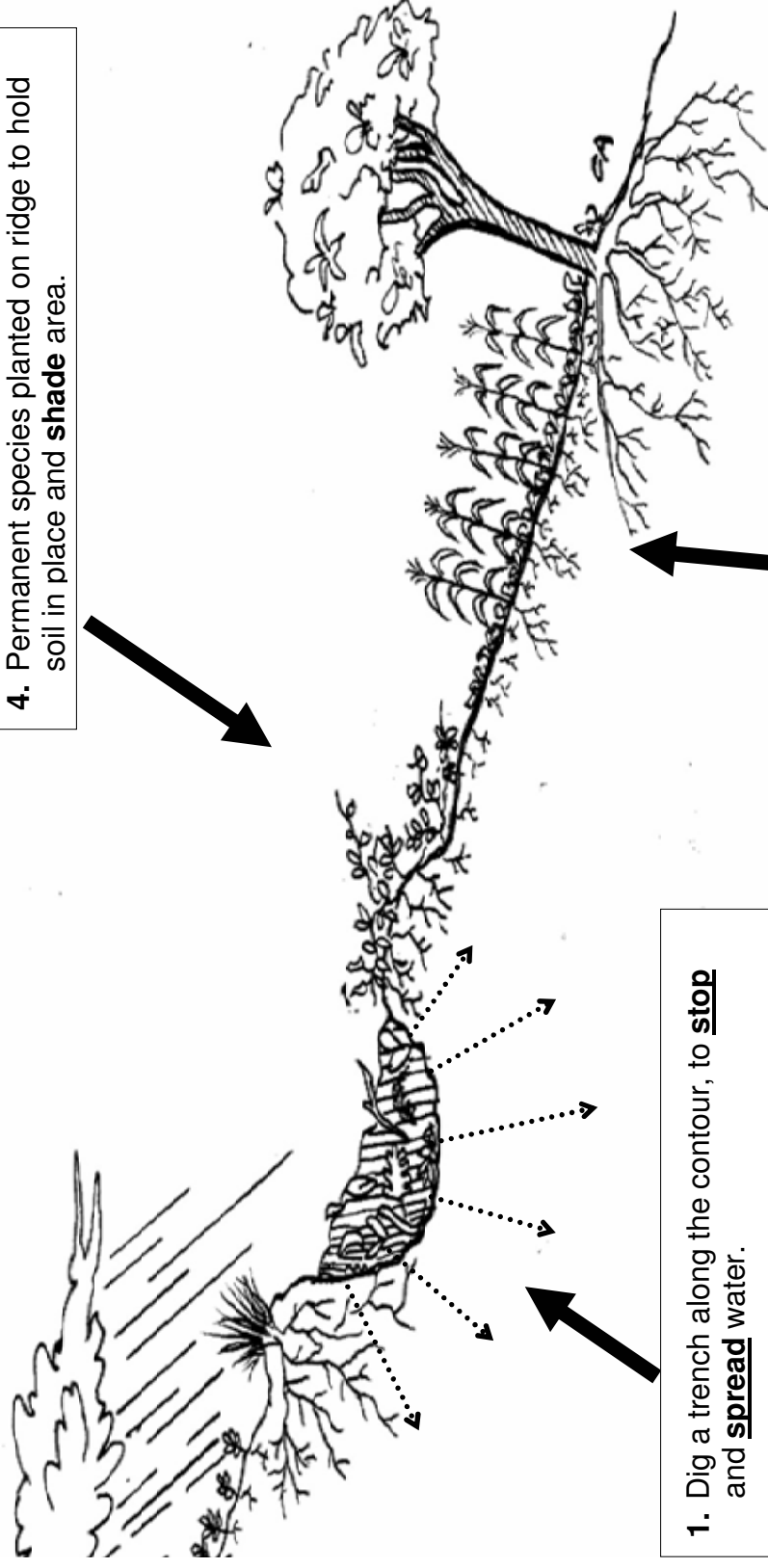


Swale Handout or Poster



1. Dig a trench along the contour, to **stop** and **spread** water.
2. Fill trench with organic matter to help water **sink** into the earth.

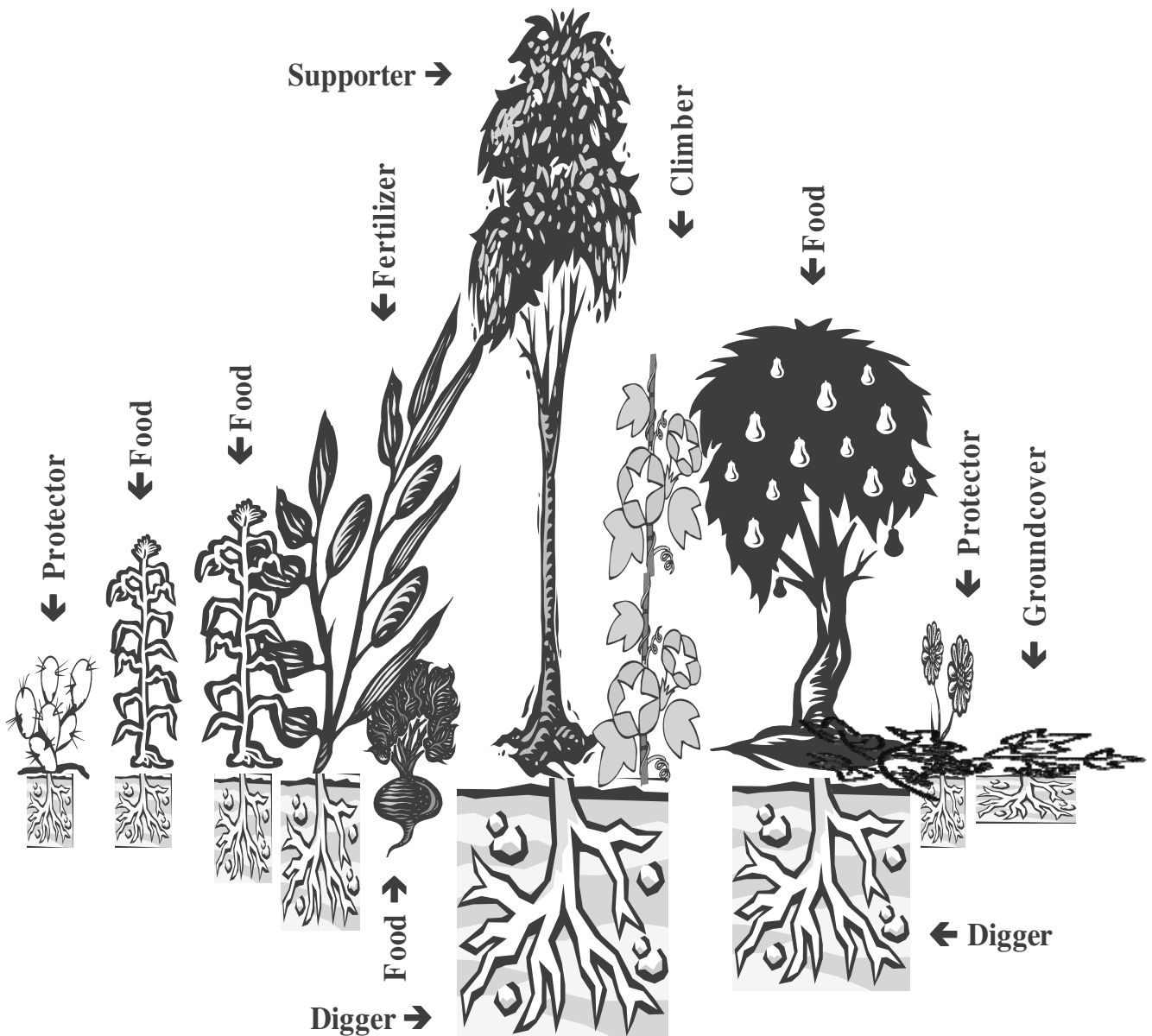
3. Put soil from digging the trench to help **stop** any water from escaping.
4. Permanent species planted on ridge to hold soil in place and **shade** area.

5. Smaller species placed just below ridge to capture water absorbed by swale.
6. Larger species placed further from swale to capture water absorbed to deeper levels.

Art by C. Aspinall. Computer enhancements by S. Nordin.

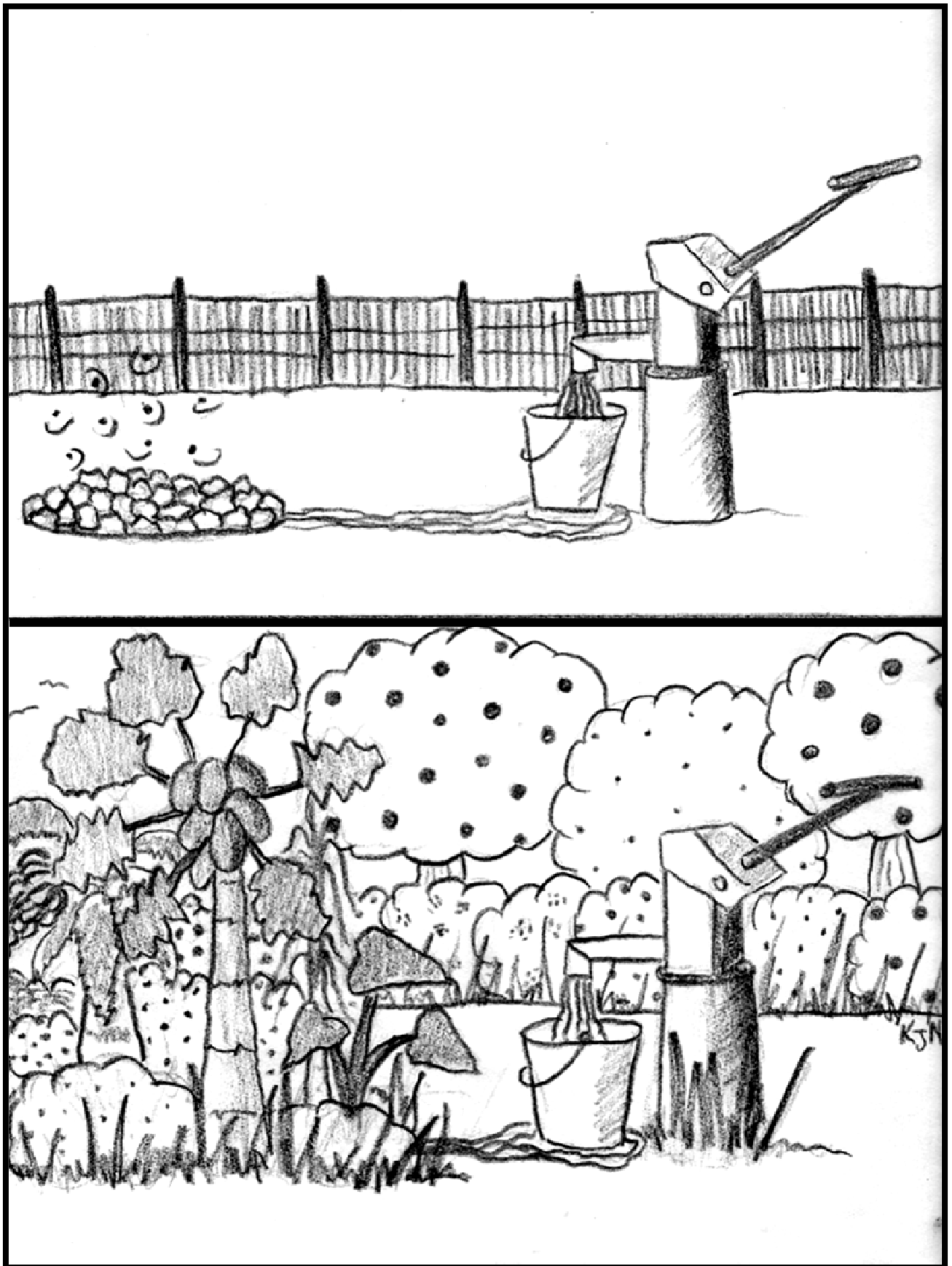
Design: Using a Permaculture guild

1.) Food for us	Based on the 6 food groups
2.) Food for the Soil	This includes legumes, decaying matter, compost, compost tea, mulch, manure, etc.
3.) Diggers	Deep or wide rooted plants, or animals that dig.
4.) Groundcover	Anything that covers the ground to protect soil, possibly feed it, and reduce evaporation.
5.) Climbers	These plants grow up other things.
6.) Supporters	These are stronger items that support the climbers.
7.) Protectors	Any thing that helps to protect your guild.



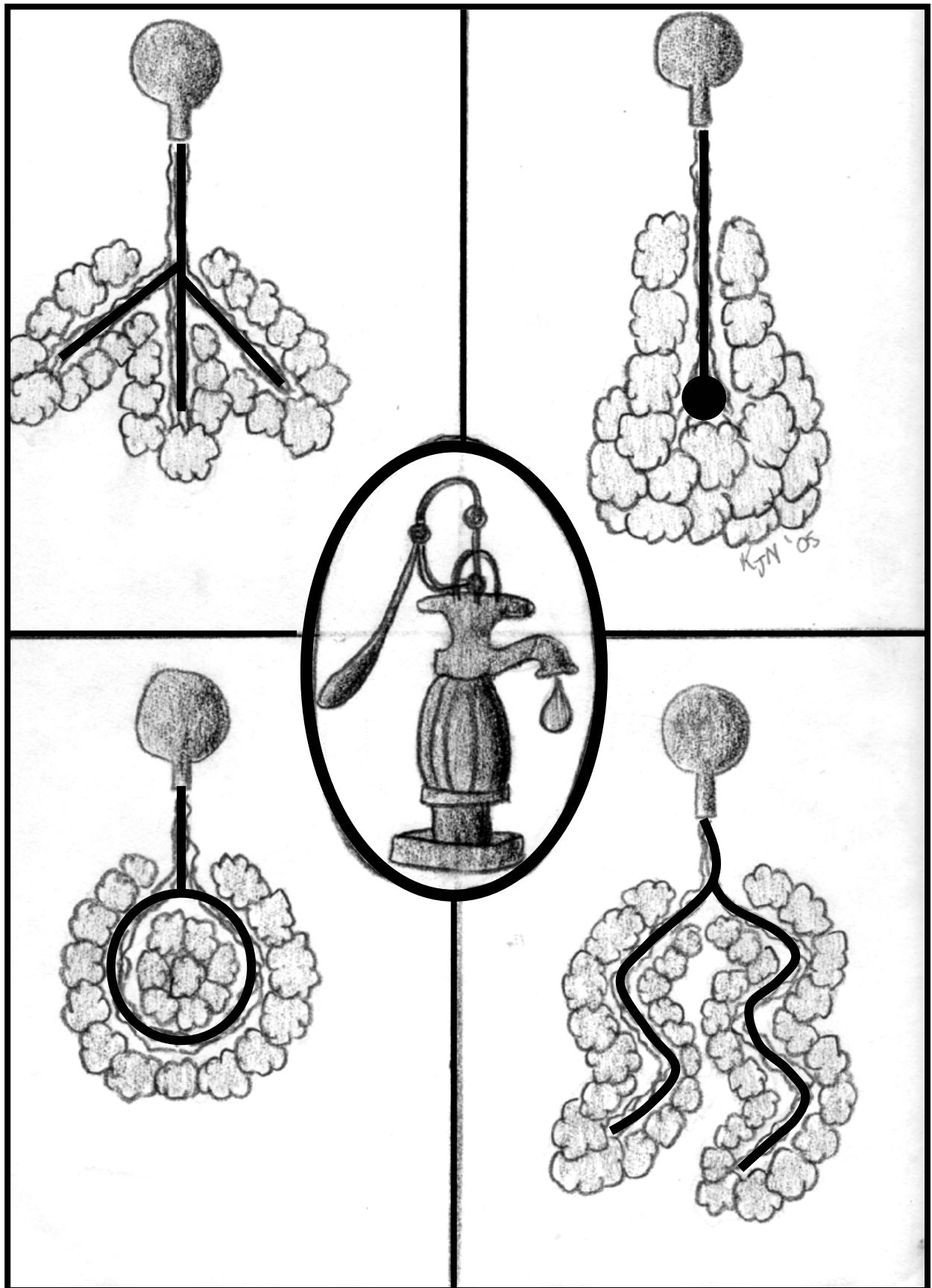
Source: *Permaculture Nutrition Training Manual*, 2000 edition. Kristof & Stacia Nordin, nordin@eomw.net

Design: Borehole Before & After



Art by K. Nordin

Design: Borehole Ideas



Art by K. Nordin