

HANDS-ON PROJECTS

RICO ZOOK

WWW.I-PERMACULTURE.ORG

Greywater

Digging tools (shovel, mumti, etc.)

Rock + Gravel: bigger than fist down to pea size

Mulch: mostly leaves and straw, some sticks for top

Some Beneficial Water Loving Plants

Fruiting (Banana, Pineapple, Papaya, etc.), Fiber, Fodder, Ect., no root crops

NOTE: Depending on the situation a 2 inch (5cm)+ pipe could be useful to move water from source to mulch pit

Solar Hot Water:

Flat Panel

20m to 40m Very Flexible Irrigation Pipe

!darker the colour the better!

Corrugated Metal Roof Sheet: old rusted one great

Wood for Framing Sheet

Greenhouse Plastic to cover Sheet

Wire

Tools for assembly

hammer, pliers, wire cutter, nails for framing

Tools to make holes (in sheet metal)

Batch

Corrugated roof sheet (*see drawing for size*)

Inside Tank of old Geyser (india) or Water Heater (USA)

Box Big enough for Tank

Window for top of Box

Insulation: used building type, old clothes, straw

In & Out Pipe Fittings

Valves

Tools

**** this is an involved project that takes time and some carpentry skills to construct**

Spiral Garden

Soil

Short Wall Material

(for example: Bricks, concrete chunks, stones, boards, ect),

seeds and plants

Mulch Material: leaves and straw

Worm Box:

Box can be any non-metal container of the appropriate size

Plastic tub or a woven basket will work as premade box

For plastic tub need a hole making tool

Materials for 30 cm by 45 cm by 75 cm wooden box

4 @ 30 by 75 (one is the top) boards, 2 @ 30 by 45 boards

framing material: 4cm square slats; 4 30cm lengths, 4 45cm lengths

Hammer & Saw

nails/screws

Tools to make holes

Newspaper (no colour), kitchen scraps, ready compost and soil

1/2 kg (or less) of worms-**if someone is going to take care of them!!*

You can get from someone already doing worm compost or dig them

up

Sheet Mulch and Roof Top Garden:

Newspaper (*no colour*)

and/or

Plain Cardboard: plain brown, unwaxed

Any Other Old not usable Organic Materials (cotton, wool, silk, etc.):

sheets, clothes, blankets, sacks

Manure or Compost*: new & old

Mulch: dead leaves, straw, vegetative material)

(*compost optional, good for demonstrating instant garden bed or rooftop garden)

IMO's

2 or 3 segments, 5+ cm diameter Fresh Green Bamboo: bigger diameter better

(cut day of or day before use. segment will have two joints at each end)

Day old cooked Rice: enough to fill bamboo interior

Machete

Water: small amount

Location to Bury: good soil. the richer the better

~ 1 kg Raw Sugar or Molasses (not refined white)

Non Metal Bucket (plastic or wood)

Cloth to cover: breathable

String or Fiber

***Can be old bamboo turned brown, green is just better
will need to bury one set [2 or 3] 5-7 days prior to above demo)
as such we will need two sets of Bamboo and Rice**

Seed Balls

Seeds appropriate to site and intention

(smaller easier, ones to grow without care, wild or fukuoka style)

Soil with some clay content

Some manure

Soft rock phosphate or dolomite

Water

A-Frame construction

should have enough sets so groups of 3- 5 people can work on one
THE FOLLOWING IS FOR ONE A-FRAME

1 piece, 2m length, 2 - 4 cm dia (larger will work) Old bamboo
(new will work for demo, but is very much not the best)

1 pc, 1m length, 2 - 4 cm dia. old bamboo

or

2 pieces, 2m long, milled wood (lumber, construction wood)

1 piece, 1m long milled wood

**the above bamboo or wood needs to be as straight as possible
if it curves to much it will not work**

twine or wire (strong enough to tie bamboo)

2+ m string or twine

machete or kukuree
3 colours of permanent markers
Tape measure (for calibrating 2% to 4% slope)

SWALE, BUND or TERRACE CONSTRUCTION

A-Frame or Bunyip
Digging tools (shovel, mumti, etc.)
Small Wire Flags, Bamboo stakes, or Rocks

HAYBOX

This is an insulated box. Idea is that you put a pot of food that has come to a boil into it, close it up, and the food gets completely cooked without further heating

Cardboard box just bigger than cooking pot

Larger cardboard box, 2 of these

smaller one fits into larger one with at least 10cm space around sides, about 4 - 5cm gap on bottom, tops of boxes level with each other (remember 4-5cm gap at bottom) exactness not necessary as we can cut boxes to sizes we need.

Straw, old clothes/rags, or similar insulating material

2cmx2cm strips of wood

2 strips length of big box, 3 strips length of box width.

Glue

Wide Strong Tape

COMPOST SOUP

5 gallon bucket or similar item

if possible any or all of the following

seaweed or kelp powder

soft phosphate or rock phosphate (organic source)

Compost Pile

Manure

Small finished compost

Green leaves and vegetation

Brown leaves, vegetation and/or straw

Bucket

Hoe

Bamboo Planters

Widest diameter Bamboo available, one with big Open center

Machete

Planting soil

Seeds or small vegetable starts

Bamboo Raft

Long poles of bamboo [see drawing for estimate number]

Natural fiber cord to tie raft together, or scrap plastic cord string

Larger used plastic water bottles (100+?)

Machete

Straw

Soil

seeds