**Greywater**
Digging tools (shovel, mumti, etc.)
Rock + Gravel: bigger that 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, etc.*),
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