How to build a water-wise planter and watering system

Irrigation System Ingredients:

Materials
- 5 gallon plastic bucket with lid
- 2' ft long PVC pipe, 1.5" inside diameter
- 1 hand towel or a strip from a towel that is about 6" wide x 24"

Tools
- Hole saw bit, 1 ⅞", used to make holes in bucket lid (see image below)
- Jig saw or saber saw, used to cut PVC pipe to 2' pieces

Irrigation System Instruction:

1. Using a hole saw, make 2 holes on either side of bucket lid

Holes on either
side of bucket lid

2. Cut PVC into 2' long pieces

2' long PVC pipe

3. Insert PVC into one of the holes on bucket lid

1.5" inside diameter
PVC pipe

5. Insert towel into other hole on bucket lid

Barrel Planter Ingredients:

Materials:
- Recycled food grade 50 Gallon drum
- 2 cubic ft of mulch / small bark
- 4 - 5 cubic ft of soil or topsoil
- Fruit tree fertilizer (optional)
- 1 fruit tree, species must be suitable for container planting*
  Not all fruit tree species can be planted in containers. Recommended species are those with roots that can survive and thrive in a contained area with limited space for root growth such as dwarf citrus, pomegranate, and fig. Research to check species suitability for container planting is advised prior to planting.

Tools:
- Drill with 1" - 1.5" drill bit

Instructions:
1. Drill 4-6 holes for irrigation at base of barrel, 2" up from bottom

2. Place irrigation system inside barrel. Make sure top end of PVC pipe reaches to the top rim of barrel, or just below it.

3. Fill bottom of the barrel with 1 cubic foot of mulch/wood chips

4. Add soil until barrel is ½ to ⅔ full (the fill line depends on size of tree to be planted).

Do not bury towel in soil.

5. Plant tree.
Place roots of tree on top of towel.

6. Fill in around tree with soil.

7. Top off with 1 cubic foot of mulch (about 3" to 4" deep)

8. Water tree.
Pour water down the PVC pipe until water overflows from pipe. This fills the 5 gallon bucket and wets towel for roots.
Water soil around tree until water comes out holes at bottom of the barrel.