

Lesson One – What is Hydroponics?

LEARN: Types and Parts of Hydroponic Systems

30-45 minutes

Purpose:

Participants will learn the different types of hydroponic systems that are being used today and the reasons for each. They will also learn about the parts of a typical hydroponic system.

Materials:

- *Types of Hydroponics Systems* worksheet
- *Types of Hydroponics Systems* – Answer Key
- *Parts of a Hydroponics System* worksheet
- *Parts of a Hydroponics System* – Answer Key
- *Introduction to Hydroponics* slide presentation
- *Hydroponics User Guide* (optional)

Facilitation Steps:

1. Hand out the *Types of Hydroponics Systems* and *Parts of a Hydroponic System* worksheets to each student.
2. Present slides 9-16 of the *Introduction to Hydroponics* slide presentation and have the participants take notes on the *Types of Hydroponics Systems* worksheet.
3. After they have finished taking notes, move on to the *Parts of a Hydroponic System* worksheet and present slides 17-24 while taking notes using the *Parts of a Hydroponics System* worksheet. This is where participants make connections between what the needs are for growing plants with the mechanics of the hydroponics system used.
4. Position the Realityworks Hydroponics System you are using where participants can see it. Do a show and tell of each part of the hydroponic system as you move through each slide. The *Hydroponics User Guide* can be used as a resource.

Name: _____ Class: _____

Types of Hydroponic Systems

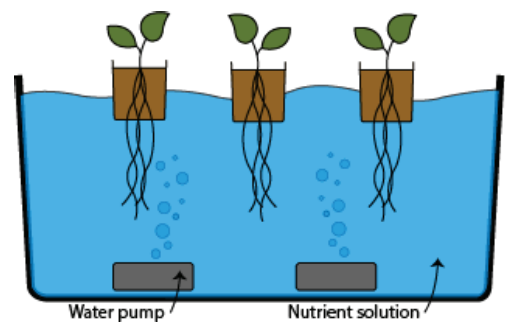
What are six typical types of hydroponic systems?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

In the area below fill in the correct terminology and information for each type of hydroponics system.

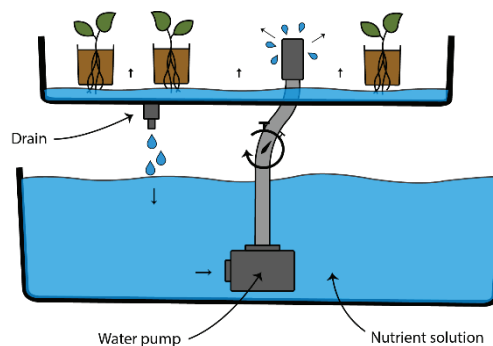
1. DWC also known as _____

How does this system work?



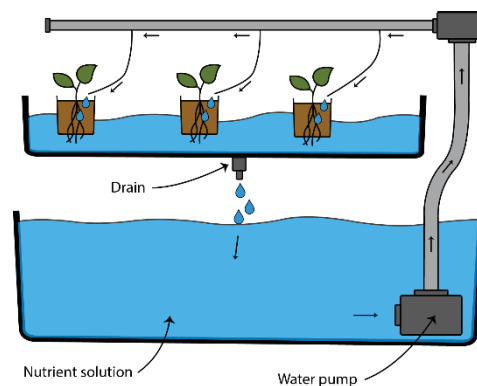
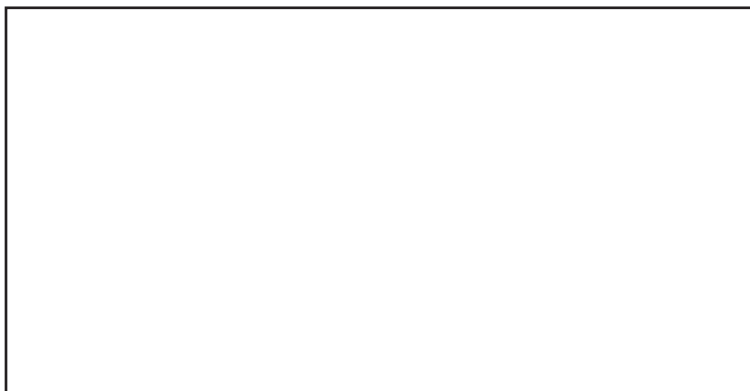
2. Ebb and Flow is also known as _____ and _____

How does this system work?



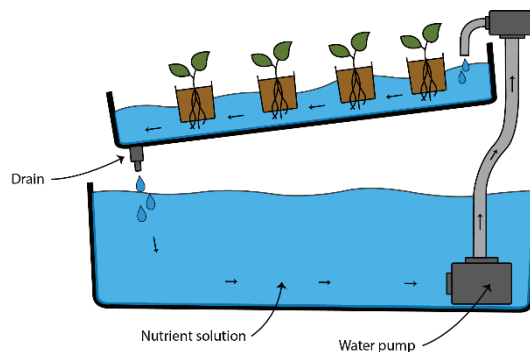
3. Drip System

How does this system work?



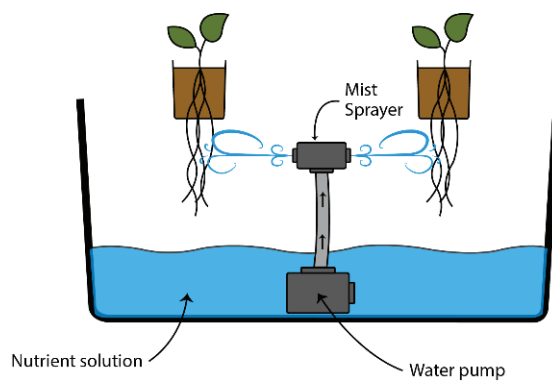
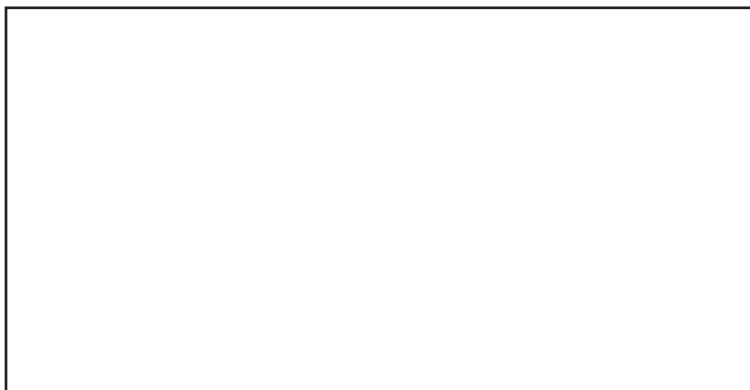
4. NFT is also known as _____

How does this system work?



5. Aeroponics

How does this system work?



6. Aquaponics

How does this system work?

