

# Types of Hydroponic Systems – Answer Key

What are the six typical types of hydroponic systems?

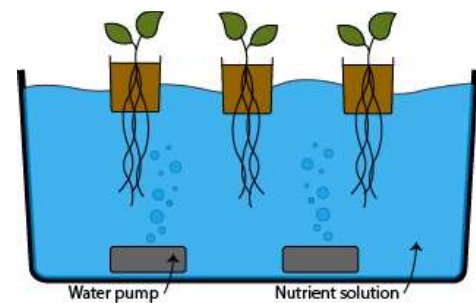
1. Deep Water Culture (DWC)
2. Ebb and Flow (Flood and Drain)
3. Drip System
4. Nutrient Film Technique (NFT)
5. Aeroponics
6. Aquaponics

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

1. DWC also known as Deep Water Culture

How does this system work?

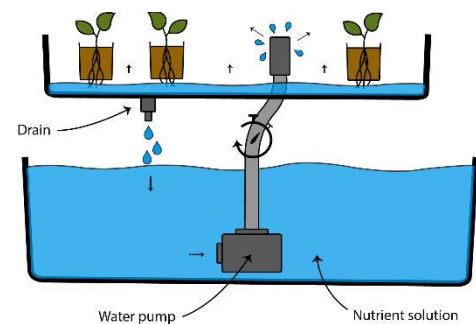
- Plant roots are suspended in a nutrient solution
- Oxygen is released into the water to prevent the roots from drowning
- A variation of this is known as bubbleponics



2. Ebb and Flow is also known as Flood and Drain

How does this system work?

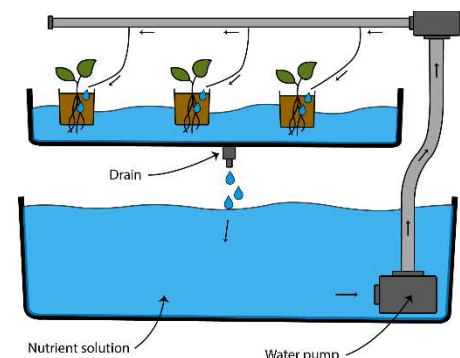
- Water pump on a timer periodically floods the plants with water that includes a nutrient solution
- Water slowly drains back into the nutrient solution



3. Drip System

How does this system work?

- Water pump draws water from a nutrient solution and drips it continuously on the plants
- The drain returns the water to the nutrient solution

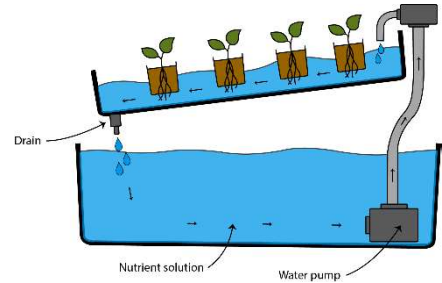


## Introduction to Hydroponics Curriculum

### 4. NFT is also known as Nutrient Film Technique

How does this system work?

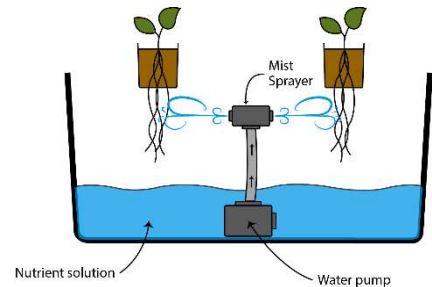
- Plants are secured to a ramp at a slight tilt, water is pumped on the ramp from a nutrient solution
- Water flows down the ramp and drains into the bath, continuously bathing the plants roots



### 5. Aeroponics

How does this system work?

- Water pump draws water out of a nutrient solution and sprays mist directly onto the roots of the plant



### 6. Aquaponics

How does this system work?

- Nutrients in the fish waste is converted from ammonia to nitrogen and provide nutrients for the plants
- Plants filter the water to keep the fish healthy

