

**SHAMBHU DAYAL GLOBAL SCHOOL**

**KAUSHAL BODH**

**CLASS VIII**

## **MONTHLY ACTIVITY REPORT**

Hydroponics and Sustainable Green Skills

**APRIL - AUGUST**

**MONTH-WISE ACTIVITY COMPILATION**

Prepared as a month-wise record of hands-on Kaushal Bodh activities with focus on hydroponics, plant propagation and sustainable practices.

**SCHOOL ACTIVITY REPORT**

# MONTH-WISE ACTIVITY INDEX

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## Preparation of Hydroponic Pots with Plastic Bottles

**SHAMBHU DAYAL GLOBAL SCHOOL**  
**KAUSHALBODH**  
**CLASS VIII**  
**MONTH - APRIL**

# HYDROPONICS

**ACTIVITY: PREPARATION OF HYDROPONIC POTS WITH PLASTIC BOTTLES**

**PREPARING THE BOTTLES**

**PREPARING GROW CUPS**

**MAKING INSERTIONS**

**SUCCESSFUL DESIGNS**

**SHOWCASING THE POTS!**

**OUR HANDMADE POTS**

**OUR HANDMADE POTS**

**ACTUAL STUDENT CREATIONS**

**ACTUAL STUDENT CREATIONS**

**Benefits :** Water Saving • No Soil • Space Efficient • Eco-Friendly!  
**Materials used:** Plastic Bottles • Paper/Plastic Cups • Wicks • Seeds & Plants

WATCH OUR ACTIVITY VIDEO: [youtube.com/shorts/zWf8XBoawgo?si=KB6mZIZ6krFTyzMf](https://youtube.com/shorts/zWf8XBoawgo?si=KB6mZIZ6krFTyzMf)  
 or <https://youtube.com/shorts/zWf8XBoawgo?si=KB6mZIZ6krFTyzMf>

**KAUSHAL BODH • CLASS VIII**  
MONTH: APRIL

# HYDROPONICS: GERMINATION OF SEEDS

FOR THE SUSTAINABLE GROWTH OF HYDROPONICS



**1. REPURPOSING RECYCLED BOTTLES**



**2. SETTING UP SEEDLINGS**



**3. HANDS-ON MONITORING**



**4. SEED GERMINATION**

**Nurturing sustainable futures from the very start: Class 8 students observing, recording, and managing the soil-free germination of seeds using innovative, recycled DIY materials.**

### SDG ALIGNMENT

**2** ZERO HUNGER  


**6** CLEAN WATER & SANITATION  


**12** RESPONSIBLE CONSUMPTION & PRODUCTION  


**15** LIFE ON LAND  


## Preparation of Nutrient Medium for Hydroponics

**KAUSHAL BODH • CLASS VIII**  
**MONTH: MAY**

# PREPARATION OF NUTRIENT MEDIUM FOR HYDROPONICS

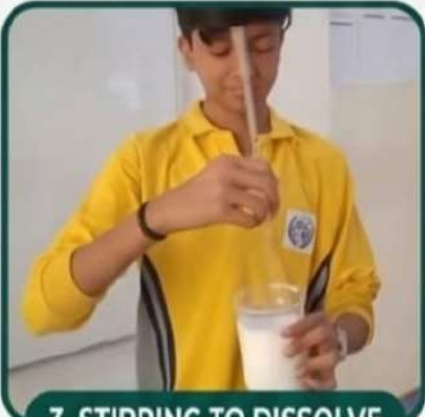
**FOR THE SUSTAINABLE GROWTH OF HYDROPONICS**



**1. MEASURING NUTRIENTS**



**2. ADDING CONCENTRATES**



**3. STIRRING TO DISSOLVE**



**4. DILUTING THE MEDIUM**

Hands-on precision meets real-world sustainability: Class 8 students actively measure, mix, and balance nutrients to power the efficient, soil-free growth of high-yield crops.

**SDG ALIGNMENT**

|                                                                                                             |                                                                                                                          |                                                                                                                                       |                                                                                                                 |
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| <b>2</b> ZERO HUNGER<br> | <b>6</b> CLEAN WATER & SANITATION<br> | <b>12</b> RESPONSIBLE CONSUMPTION & PRODUCTION<br> | <b>15</b> LIFE ON LAND<br> |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

# KAUSHAL BODH • CLASS VIII

MONTH: JULY

## TESTING OF pH FOR HYDROPONICS

FOR THE OPTIMAL HEALTH OF HYDROPONICS SYSTEMS



1. SYSTEM OVERVIEW & MONITORING
2. GROUP INSPECTION
3. PLANT INSPECTION & CARE
4. pH TESTING & ANALYSIS

**Balancing the science of growth:** Class VIII students actively learn to monitor, test, and stabilize the pH level of the hydroponic water system to ensure maximum nutrient uptake for healthy plants.

### SDG ALIGNMENT

|                                                                                                             |                                                                                                                          |                                                                                                                                       |                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>2</b> ZERO HUNGER<br> | <b>6</b> CLEAN WATER & SANITATION<br> | <b>12</b> RESPONSIBLE CONSUMPTION & PRODUCTION<br> | <b>15</b> LIFE ON LAND<br> |
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## Vegetative Propagation - Cutting &amp; Layering Method

**KAUSHAL BODH • CLASS VIII**

MONTH: JULY

**VEGETATIVE PROPAGATION**

**CUTTING & LAYERING METHOD**



1. TEAM SELECTION & SETUP



2. PREPARING THE STEM CUTTINGS



3. PROPAGATION & SOIL WORK



4. DEMONSTRATING THE PROCESS

**Hands-on Green Skills:** Class VIII students actively engaging in vegetative propagation, demonstrating precision cutting and layering methodologies to accelerate plant reproduction without seeds, fostering sustainable agricultural mindsets.

**SDG ALIGNMENT**

2 ZERO HUNGER  


4 QUALITY EDUCATION  


12 RESPONSIBLE CONSUMPTION & PRODUCTION  


15 LIFE ON LAND  


## Wick Method for Hydroponics - Passive Grow System

KAUSHAL BODH • CLASS VIII

MONTH: AUGUST

# WICK METHOD FOR HYDROPONICS

(Passive Grow System)



**Empowering Sustainable Horizons:** Class VIII students actively setting up, stringing, and demonstrating the highly efficient **Wick Hydroponics** system—utilizing capillary action via recycled materials to secure autonomous plant growth.

## SDG ALIGNMENT



DWC Method for Hydroponics - Deep Water Culture

**KAUSHAL BODH • CLASS VIII**

**MONTH: AUGUST**

# DWC METHOD FOR HYDROPONICS

**DEEP WATER CULTURE METHOD**



**1. PREPARING GROW CUPS**

**2. ASSEMBLING THE RESERVOIR**

**3. POSITIONING THE CUPS**

**4. DWC COMPONENT CHECK**

**5. PLANTING & ROOTING SEEDLINGS**

**Innovative Soil-Less Agriculture:** Class VIII students actively learn the science and setup of the Deep Water Culture (DWC) hydroponics method, utilizing a nutrient-rich water reservoir and suspended grow cups to ensure consistent, healthy plant growth.

**SDG ALIGNMENT**

|                                                                                                             |                                                                                                                   |                                                                                                                          |                                                                                                                                        |
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| <b>2</b> ZERO HUNGER<br> | <b>4</b> QUALITY EDUCATION<br> | <b>6</b> CLEAN WATER & SANITATION<br> | <b>12</b> RESPONSIBLE CONSUMPTION & PRODUCTION<br> |
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