### **Subject - Agriculture**

Class - 12th

**Duration - 35 Min.** 

**Topic - Water Cycle** 

### **Learning outcomes-**

- Students will know about the water cycle.
- Students will understand the importance of water cycle.
- Students will identify the steps of water cycle.
- Students will describe the movement of water with the water cycle
- Students will demonstrate , the process of evaporation , Condensation , precipitation.

#### **Learning objectives –**

- To know the terms evaporation , Condensation , precipitation etc.
- To learn about the water cycle.
- To understand the importance of water cycle.
- To identify the different steps of water cycle.
- To differenciate between the process of evaporation , Condensation , precipitation.

**Teaching Aids** — Blackboard , Chalk , Poster , Chart and PPTs for smart classes.

## **Teaching Points –**

- What is water cycle
- Importance of water cycle
- Different steps of water cycle

### **Teaching Strategies –**

- Interactive Lecture Method
- Discussion Method
- Explanation Method
- Demonstration Method
- Questioning

# **P.K Testing**

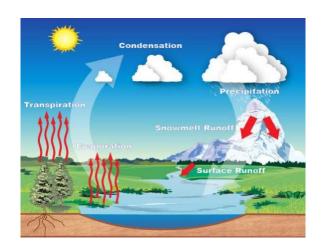
5E	PT Activity	Student Active
Engage	PT will try to engage and creating curiosity among the students by asking questions.	
	<ul> <li>What are the basic need of a human body.</li> </ul>	Water , Food , Air
	<ul> <li>Why do we need food.</li> </ul>	To get energy.
	Why do we need water.	For temperature maintenance and hydrate our body
	<ul> <li>What will happen if i do not drink sufficient amount of water.</li> <li>From where we get water</li> </ul>	Dehydration , weakness and sometimes we get faint. River well pond and
	Okay, very well, now tell me how does it rain.  Approximate of the tenis.	rainwater Student will answer accordingly.
	Announcement of the topic –	
	Okay , students , today we will	
	discuss about the topic water cycle.	
Presentation		

Explore		
	PT will ask some questions to	
	explore the knowledge of	
	students –	
	• Students in summer the	It becomes low in summer
	water level of river , Ponds	season.
	will high or low.	

<ul> <li>Now tell me when it will</li> </ul>	Rainy Season
again reach normal or high	
level.	
Why water level becomes	Because of evaporation of
low in summer season?	water due to high heat of
	sun.
Yes, very good where does this	It goes to cloud.
evaporation water goes to?	

### Explain

Student will note down.



Water cycle, also called hydrologic cycle that involves the continuous circulation of water in the earth atmosphere system many processes involve in the water cycle the most important are –

- Evaporation
- Transpiration
- Precipitation
- Condensation

Actually in atmosphere the overall water is remaining

Students will try to understand the process.

	essentially constant with in the	
	cycle.	
Elaborate	Well students now we will discuss about the different steps of water cycle.	
	Students will give me the some example of evaporation.	Dry of Wet Clothes.
	Give me some example of Condensation.	Deposition of water drop lets Chilled water bottle.
	Okay let me elaborate the terms/ steps of water cycle.	
	<b>Evaporation</b> – The transfer of water from the Earth of atmosphere is called evaporation .The main factors affecting evaporation are – temperature, humidity , wind speed , solar radiation.	
	<b>Transpiration</b> – It is a process of water movement, water loss through a plant and it evaporation from aerial parts such as leaves, stems and flowers.	
	<b>Condensation</b> – Transition process from vapour state to the liquid state. In the atmosphere	Students will understand.

	Condensation may appear as cloud or dew.  Precipitation — it is the result when the tiny Condensation particles grow large through collision and these fall to the earth. It can be in the form of rain , hail , snow etc.	
Evaluation	<ul> <li>What is water cycle?</li> <li>Define the form evaporation.</li> <li>How the cloud is formed?</li> <li>What is the fourth step of water cycle.</li> </ul>	Students will answer accordingly.
Homework	Draw a chart of water cycle.	