# DCP FOR CHAPTER-15: OUR ENVIRONMENT.

Number	Sub-Topics
of	
period	
1	Environment, Ecosystem, classification of ecosystem- Natural
	ecosystem, Artificial ecosystem Components of
	ecosystem, Function of an ecosystem
2	Food chain, Food web Trophic level, 10% law of energy transfer.
3	Pyramid of biomass, pyramid of number, Bio magnification
4	Human activities and environment, ozone layer formation, depletion
	causes and prevention managing garbage we produce.



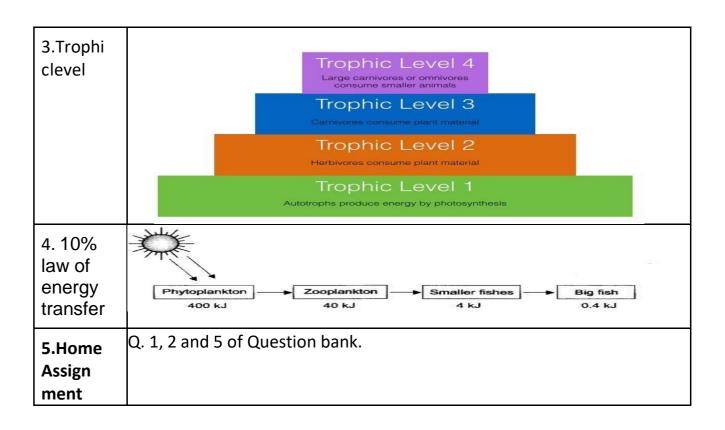
Class	X Subject			BIOLOGY	
Period.	1 Chapter-	15	Our Environment		
Sub- Concep ts	Environment, Ecosystem, classification of ecosystem-Natural ecosystem, Artificial ecosystemComponents of ecosystem, Function of an ecosystem				
Teaching AidTo be used	Smart Class, PowerPoint presentation, classroom objects, charts.				
Learnin g Outcom e.	<ul> <li>On completion of this topic, students will be able to</li> <li>Define eco system</li> <li>List the different component of eco system and categorize them in to Biotic and abioticcomponents</li> <li>Categorize the substances in ecosystem as biodegradable and non-bio degradable</li> <li>Identify the producers, consumers and decomposers. They will be able to analyze their role in anecosystem</li> <li>List the categories of consumers as herbivores, carnivores and omnivores</li> </ul>				
SI. No	Step Wise (What to be done)				

1 Introductio n.	<ul> <li>Define environment</li> <li>Bio-geochemical cycles</li> <li>Biodegradable materials</li> <li>Non- biodegradable materials</li> <li>Living components</li> <li>Non-living components</li> </ul>
2. Ecosystem	> Define Ecosystem

	<ul><li>Explain biosphere</li><li>Ecology</li></ul>
3. Classificati onof ecosystem.	Classification of Ecosystems:  Forest  Grassland  Aquatic  Desert  Terres-trial  Artificial  Aquatic
4. Componen ts and functionof a n ecosystem.	<ul> <li>Biotic components</li> <li>Producers</li> <li>Consumers</li> <li>Decomposers</li> <li>Abiotic component (air, water, soil)</li> </ul>
5.Home Assignme nt	Q. 3,4 and 5 of question bank.



Class	X Subject			BIOLOGY		
Period.	2	Chapter	r-15 Our Environment			
Sub- Concept s	Food ch	Food chain, Food web, Trophic level, 10% law of energy transfer.				
Teachin gAid To be used		Smart Class, PowerPoint presentation, classroom objects, charts.				
Recapit ulation.	1. Give	<ol> <li>Testing previous knowledge –</li> <li>Give two examples of Artificial ecosystems.</li> <li>Which is the ultimate source of the energy for an ecosystem?</li> </ol>				
	3. Do we have to clean ponds or lakes in the same manner of aquarium? Why or why not?					
Learnin g Outcom e	<ul> <li>On completion of this topic, students will be able to</li> <li>Investigate how different organisms in an ecosystem obtain energy</li> <li>Understand the role of producers, consumers and decomposers in a foodchain or in a food web.</li> <li>Distinguish between food chain and food web.</li> <li>Analyze how do different organisms including human beings affect food chains.</li> <li>Demonstrate how the energy flows through a food chain in an ecosystemand how much energy is transferred to the successive trophic level .</li> </ul>					
SI. No	Step Wis	Step Wise (What to be done)				
1.Foo d chain	<ul> <li>Different steps of food chain. ( two steps, three steps, four steps and fivesteps food chain)</li> <li>Who Eats whom?</li> <li>Forest food chain, grassland food chain, pond food chain.</li> <li>Importance of food web.</li> </ul>					
web	> Ir			vCD.		





Class	х		Subje	ct	BIOLOGY
Period.	3 Chapter		r-15	Our Environr	nent
Sub-Concepts	Pyrami	d of bio	mass,	pyramid of nu	umber, Bio magnification
Teaching Aid To be used	Smart C	lass, Pov	verPoir	t presentatior	n, classroom objects, charts.
Recapitulation	Testing	previous	knowl	edge –	
•	1. Wh	at are th	e impo	rtance of deco	omposers?
	2. Wh	at is a fo	od chai	n?	
	3. Wh	3. What is food web?			
	4. Distinguish between a food chain & a food web				
Learnin g Outcom e	<ul> <li>On completion of this topic, students will be able to</li> <li>Define biomass</li> <li>Draw or construct the pyramids of biomass and number and correlate them.</li> <li>Outline and analyses the process of Biomagnification</li> <li>Analyze the effect of Biomagnification in a food chain.</li> </ul>				
SI. No	Step Wise (What to be done)				
1.Ecological pyramid	<ul> <li>Explain pyramids</li> <li>Types of pyramids</li> <li>Types of pyramids</li> </ul>				
2.pyramid biomass	<ul> <li>Define biomass</li> <li>What is organic matter</li> <li>Maximum biomass occurs in producers</li> </ul>				

3.pyramid number and energy.	Pyramid of numbers
4. Biomagnificati on	<ul> <li>Define biological magnification</li> <li>Toxic chemicals</li> <li>DDT</li> <li>PPM</li> </ul>
5.Home Assignme nt.	Q. 6 and 7 of Question bank.



Class	Х		Subject		BIOLOGY.	
Period.	4	Chapter-15		Our Environment		
Sub- Concepts	Human activities and environment, ozone layer formation, depletion, causes and prevention managing garbage we produce.					
Teaching To be used	Smart Class, PowerPoint presentation, classroom objects, charts.					
Recapitulati on.	Testing previous knowledge –  1. What is biological magnification.? Explain with examples.  2. Can an ecosystem survive without producers?  3. What is pyramid of numbers, biomass and energy?					
Learnin g Outcom e.	<ul> <li>On completion of this topic, students will be able to</li> <li>Identify and explain major human activities which are threat to ourenvironment</li> <li>Define ozone and explain the function of ozone</li> <li>List the threats to earth's ozone layer and measures to prevent itsdepletion</li> <li>Categories the waste materials which we produce and discuss thesimple steps individuals can take to protect our environment.</li> <li>Be aware of Conservation of ecosystem.</li> </ul>					

SI. No	Step Wise (What to be done)
1.Human activities and environmen t.	<ul> <li>Define Pollution</li> <li>Explain Types of pollution</li> <li>Air pollution, water pollution,</li> <li>Different sources of pollution</li> <li>Effects of pollution.</li> <li>Measures to control pollution</li> </ul>
2.ozone formation	<ul> <li>Define ozone</li> <li>Explain ozone formation</li> <li>O<sub>2</sub></li></ul>
3.	<ul> <li>Causes of ozone layer depletion</li> <li>ODS</li> <li>Effects of ozone layer depletion</li> <li>Measures to control ozone layer depletion</li> </ul>
4. Causes and prevention managing garbage we produce.	<ul> <li>Define Garbage</li> <li>Managing the garbage, we produce</li> <li>Waste treatment</li> <li>Disposal of hazardous materials.</li> </ul>
5.Home Assignme nt	Q. 3,4 and 5of question bank.