

Note for facilitator

Dear Parents and Teachers,

Knowing this chapter 6: Natural Vegetation & Wildlife is an integral and important part of your child's learning, so thank you for supporting your child. This note tries to explain you why this workbook matters, how to use it in most effectively in children context, and what kind of role you have as a parents/teacher. Please read this carefully, because it will help children get the most effective learning from every activity and connect classroom ideas to real life. These concepts are directly linked to the children's daily life, such as how a tree grows in a certain environment. If they wanted to grow a tree, a forest, or vegetation, then they would need to know which kind of ecological environment is required for growth. In other words, this chapter asked to the children to look closely at where they live and to ask respectful questions to the elders, and try to small, useful solution with their hand and to understand the around them. In terms of parents, teachers, they'll guide and support to them in what they want to do and to make a rubric like students can make their good habits, like caring for the seeding, a clearer field, saving water resources, and tell them my story, which is ties the past and future. For example, water crisis, Deforestation, and others.

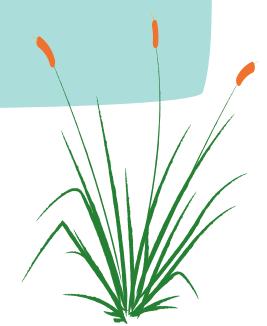
Note for Students





Hey, young explorer, In this week in this chapter, we will try to learn about how plants and animals grow near our village or around the world. You can go outside with an elderly person from your house and collect 3-4 or more different kinds of leaves and note where you found each leaf. whether that is a yard field, roadside, forest, or other places. You can make a colorful drawing of that leaf and, during the nature walk, observe the leaf's shape and its texture, and what is the height of the tree? and ask to your family member or an elderly person in your family, whether that is your mother, your friends, your teachers, your parents, your big brothers and big sisters, how the trees are growing. And what is their use? And what is seasonality? Or ask any story about that tree and write what you listen, what you think, what you understand, and if possible, plant a tree and give them regular water and note everything. For example, if you are giving some water, then write down which time you put them and what date? What is the height, and which kind of environment do you give them, for example in inside the home, outside the home, and which kind of soil you use to plant them and for security you can go always with your young elder and without consent or personal land do not go or planet any plant, and wear a hat. And what you asked and what you get from your parents about different kinds of leaves and plants. You can discuss with your friends in the classroom and make a poster, and write down all their details, their environment, and what you see around yourself. It can be the environment, rain, soil, everything. You can ask questions to your elders, and you are independent learner, you are explorer. So you can always ask questions and take enjoyment from them. In our country, different kinds of plants and animals are found. We have the right and need to know and understand all about them, and as aware citizens, we must know about all those things that are an integral part of our country, so that we can understand the lifestyle, food, climate, and animals of the people living there. And remember always one thing, we as human beings are an integral part of this nature. So we have need to respect them and protect them, and then they will protect us.





Chapter 6: Natural vegetation and wildlife.

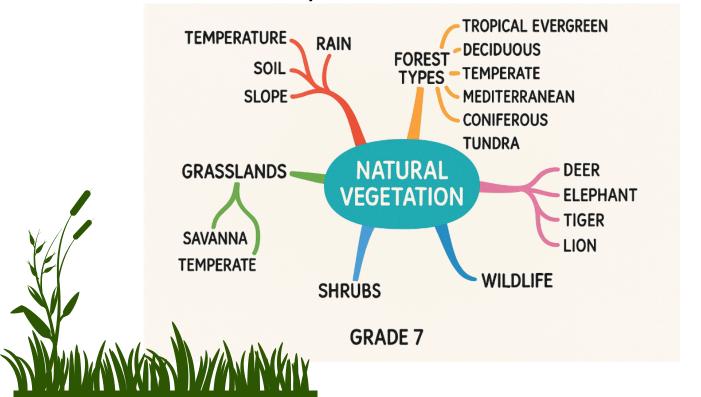


Animals and plants grow in that places where they feel appropriate or suit them, and sometimes they adapt to their environment.



A place's height, temperature, rainfall, and soil slope decide which plant will grow there. When you will go from low-height land to high-height land, like mountains. You will see the clear differences between trees and animals. So in this chapter, we will try to understand those changes that kind of factor affects them to grow a plant or animal.

Overview of this chapter:

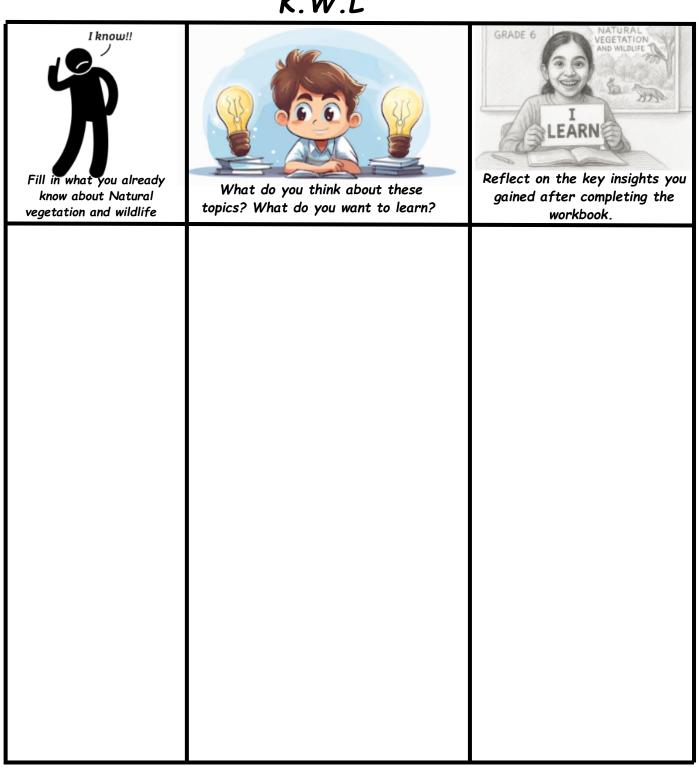




Before we go into a deep dive into the workbook, let's learn about ourselves. Below there is a K.W.L chart (Know, What, Learn), fill in the first two columns before you start the workbook and come to complete the last column once your workbook is complete. This chart will help you to see your thinking clearly and reflect on your own learning.



K.W.L





Activity 1:

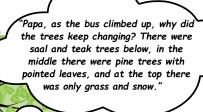


On a slope, Salima also saw beautiful red-purple rhododendron flowers blooming like small bushes.

As the altitude increased near the flowers, the trees became fewer, and there were only small patches of grass and snow in some places. Then Salima asked her father curiously,

Imagine that you are sitting with Salima in a bus travelling to Manali in Himachal Pradesh. The bus started climbing upwards from the mildly warm mountain plains below. In the plains, Salima saw trees with dense and large leaves, like sal and teak. As the bus gained altitude, the air started getting colder, and the type of trees changed; and the large leafy trees became less visible, and in their place came coniferous trees with pointed leaves, whose leaves are like needles and which form cones, like date palm and Ashoka trees.

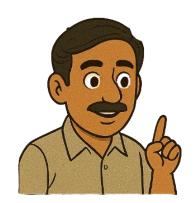








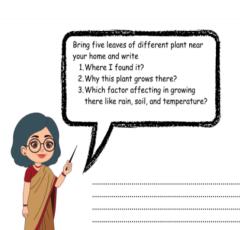




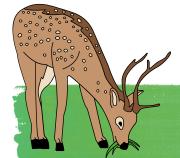
Salima, these are the Scientific laws of nature. As the altitude increases, the temperature decreases, and the moisture in the air also changes. At the bottom, where there is more heat and rain, broad-leaved trees like sal and teak grow. But as we climb higher, the air becomes cold and dry. Broad-leaved trees cannot survive there. That is why conifers are found there, such as pines and deodars. Their leaves are needle-like so that the snow slides easily, and they can survive even in the absence of water.

when we go higher, the soil becomes thin, the temperature drops a lot, and the ground remains frozen throughout the year. Trees cannot grow there, only small grasses or bushes are found. In some places, snow patches also remain on the ground throughout the year. This is the reason why vegetation changes with altitude." I will give you an example of our village. "Just like in our village, rice and sugarcane grow well in our farm because there is more heat and water. But on the upper hill slopes, people grow maize and potatoes because there is more cold and less soil. Every place has its own climate and soil-specific plants."

Salima learnt that as the altitude increases, the temperature becomes cooler and rainfall/moisture changes, so different plants grow there. Also, the steepness of the slope and the thickness of the soil determine which trees or plants can grow.



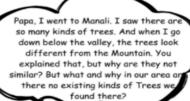




Activity 2:



Read the short conversation with Salima's and her Papa. And then do some activities which are given below.



As I said to you earlier. Places tell us lots of things, like which plants can live there or not. So, in the Mountain, you saw how things are changing with high, cool air and snows and sunlight, etc.



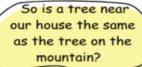


Near our village, we see other kinds of trees. Some difference. Our only local, and that tree doesn't exist all over the world or in any other area. Some trees are small, and some are bigger. It happened across the world.





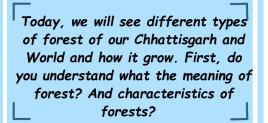






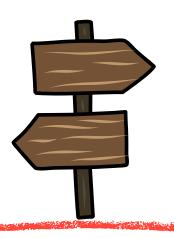














FOREST

Many Trees Together

Medium Trees Soriler

What do you think about Salima's Papa's question? What do you know about it? Fill that in below.











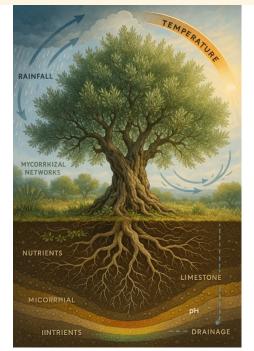


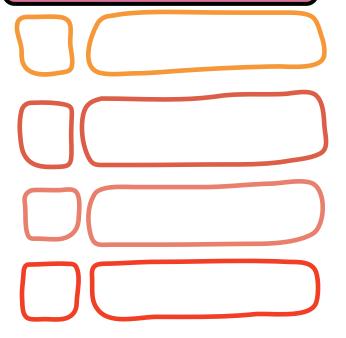












Characteristics	Tropical Evergreen	Tropical Deciduous (Monsoon)	Temperate forest.
Canopy & Undergrowth.	 Very dense canopy. Less light reaches the ground. Many vines and shade loving plants. 	 Canopy opens in the dry season. More light reaches the ground when leaves fall. Undergrowth varies from season to season. 	 Layered structure visible. The forest looks different across seasons due to the environment.
Leaf	Mostly Evergreen. And trees sheep always leaves year- round.	With evergreen deciduous trees, many trees shed a large number of leaves in the dry season.	Some trees are deciduous (lose leaves in winter); some are evergreen, depending on the rainfall and temperature of that mass of land.
Soil and moisture.	Deep, Moist, humus soils Because rainfall happens most of the year.	Red-loam or alluvial soil that becomes very wet in the monsoon and quite dry in summer.	Brown forest soils / thinner loam that holds moisture from seasonal rain and snow melt, and soils may freeze in winter.
Typical Trees	Evergreen hardwoods and wet-forest species. Like Rosewood Ebony, Wet-forest Dipterocarpus in northeast India.	Sal, Teak (sagwan), Neem, and Sheesham are broad-leaf trees that may shed in the dry season.	Oak, Beech, Maple, Chestnut; in the Himalayan temperate belts, oak, chestnut, some pines, and we can find first at higher belts in India.
Wildlife	Elephant. Monkey, Lemur, etc.	Lion. Tiger, Elephant, golden monkey etc.	Deer, Wolves, Fox, etc.
Why This type of forest Occurs	High Temperature + Heavy rainfall + Plain area	Seasonal monsoon+ Leave shedding + wet and dry	Seasonal climate + mix vegetation + moderate rainfall.

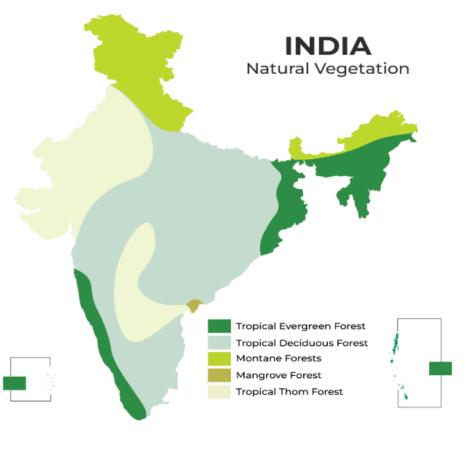


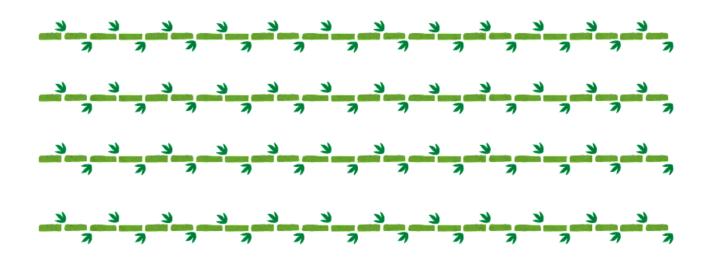
You can see in the map below where all types of natural vegetation that grow in India are shown in the map.

As in the previous activity, you were asked to write about some leaves and their contributing factors, so check that and find out which tree is which and in which type of forests found, classify it, and make a picture of those leaves or the tree here and write about it.

Tropical Evergreen
Tropical Deciduous (Monsoon)

Temperate Forest.





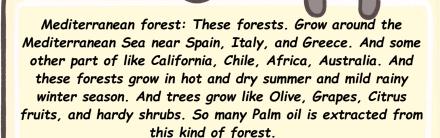


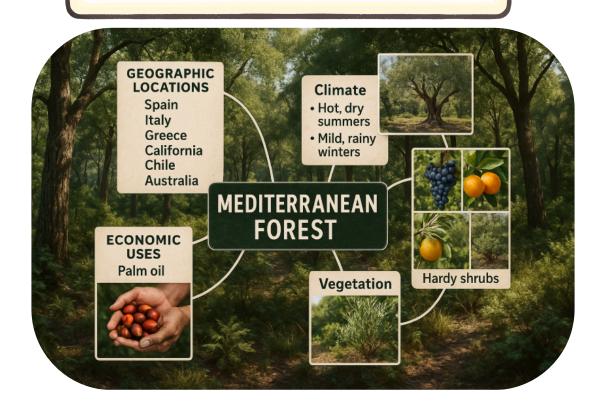
Activity 3:

Papa, when I travelled to the hills, I saw that forests looked different. Naer our home the trees are not the same, are these forests really diffrent? Yes, Salima Forests around the world and in India are not all the same.

















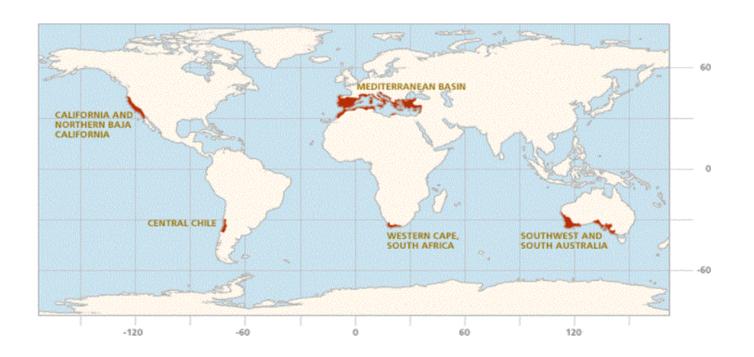




1. See	this picture and tell me 3 things that you notice?
•••••	
2. And w	thy do you notice it? Why is this different from other forest trees?
3. Tell	if there is no rain, or happened too much then what will happen.









Activity 4:



Note

Polar lands are very cold. As you see on the world map. The Antarctica and Arctic poles there is most coldest places on Earth.

So trees cannot grow there, only small plants like mosses and lichens live. And some special grow there, like snow leopard, arctic force, seal, rabbit, polar bear, oxen. Penguin etc.

Because there was no Sunlight or factors for growing trees. Which needs to. Grow trees that are not possible in that region, where there was no rain, no sunlight.





1. See this picture and tell me 3 things that you notice? size, color, land, animals.

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•••	•••••••••••••••••••••••••••••••
•••	
	2. Think for a moment and write two sentences." Why, these size plan grow in the tundra forest? Because
§	
£	
Aller	
	······································
Maria	
The Man	
11,000	3. Because you didn't see the tundra forest, if you wanted to go there
Se line	then what two things would you want to see there?
1000	
Mary 1	

Tundra Animals



Activity 5:

Salima, as you learned about forests yesterday. But do you know there are also some places where few are not tall tree grows? And these are called grassland, they also have some animals and people depending on them. You know it.



Yes, Papa, I heard about it, but I didn't know about it. How does it grow because you explained to me yesterday about how rain, temperature, and all these factors affect trees or forests to grow, but No Tall trees? No Rainfall or less rainfall. why is this kind of Area called as a grassland?



"A land where a large open area where grasses are the main plants and few trees or scattered. These lands may have tall grasses or short grasses depending on the climate or factor of vagation, and they support many grazing animals and birds. This type of land call as a grassland area."

Grassland has several types





Tropical grassland (Savannahs): In this tropical region. There are hot trees and scattered trees, tall grasses. Examples like The Deccan plateau and central India, like areas of Maharashtra, Madhya Pradesh, Chhattisgarh, some open plains, and dry forest margins, Africa's Savannah, Brazil's Campos, and Venezuela's Leonos. And in terms of animals, there are elephants, Nilgai, Gaur, Blackbuck. zebras, giraffes, deer, and leopards. Animals you would find there.

Gaur



Write One things for this:

Chital



Nilgai



Grassland



Temperate grassland: Its Flat, fertile plants, Few trees, Very useful for farming, Moderate rainfall and temperature. In terms of animal Wild buffaloes, bisons, antelopes. There are high mountain meadows and also called bugyals or alpine meadows, in the higher Himalaya, like Uttarakhand, Himachal Pradesh, parts of Jammu & Kashmir, and Arunachal Pradesh. These are grasslands at higher altitude (not the flat prairies of other continents). You showed it when we went to Manali. And you can see Several types of animals like the Himalayan Tahr and Bharal. And so many migratory birds and small mammals use these meadows in the summer time.



Write One things for this:

Himalayan Tahr



Bharal (blue sheep)



Anser indicus



1.	
	2.
	<i>3</i> .
	4 .



Write some answer of the question which is given in below.

1. Fill in the blanks.
A. large mass of land where many tree grows together it called!
B. Some trees lose leaves in dry season. This forest called!
Ckind of tree grows in cold polar regions(tundra).
D & are examples of tundra forest trees' animals.
E. In Chhattisgarh Forest found.
2. Which factor mainly affects vegetation with height?
a.Type of soil b. Altitude. C. Farmer choice d. Rain
3. Explain how height and rain affect vegetation and give me some of your examples that you collected in the above activity.
4. Explain how human use of land is changing forests in Deforestation.
Except for cutting trees.
5. Do an interview with your elder and write one story about how local
tree. Are playing an important role in your culture.
6. Write all the types of forests and how forests grow.
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Fill the KWL chart and write what you
learn from this chapter.