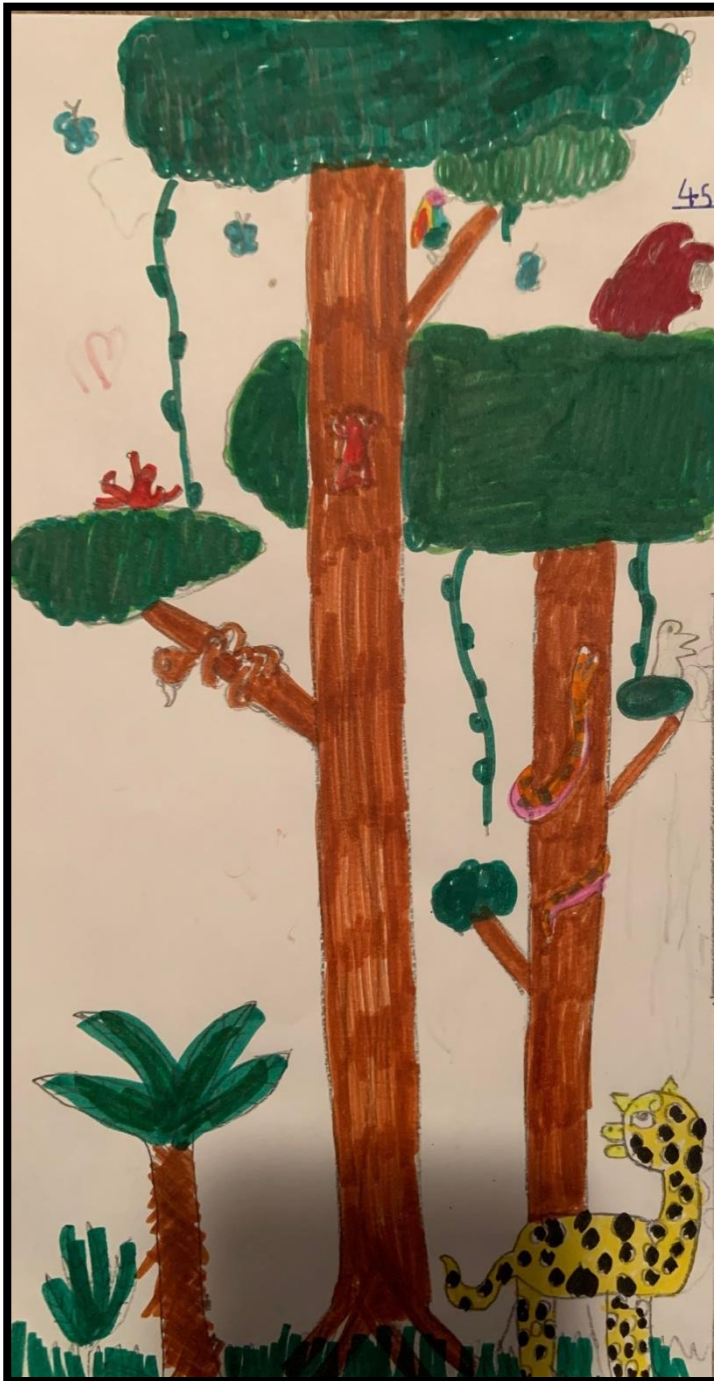


Geography Work

Year 5 Tropical Rainforest

Structure Diagrams



The canopy layer is very hot sunny and windy making it bad for most animals to live there and only the tallest trees can be tall enough

45m
The canopy layer is home to the most animals because of the food lush leaves and sunlight with howler monkeys and frogs because it is very high up.

The undercanopy is home to snakes and is also known as the halfway house which has lots of small vine saplings and vines the plants that grow here all have big leaves

The forest floor is where all the largest animals live. The forest floor is damp hot and dark the soil is very deep and in some animals live there

The forest layers

Some animals that live here include red eyed tree frogs, howler monkeys, sloths, toucans and iguanas

More plant and animal species live in the canopy layer than anywhere else

because lots of sunlight reaches this layer and rainwater collects in the leaves.

The plants that grow in the undercanopy have large leaves to catch the sunlight.

Forest Floor

The forest soil isn't very deep

only the very tallest rainforest trees break through the canopy to the emergent layer.

Animals that are found in the emergent layer include harpy eagles, scarlet macaws, monkeys, and blue morpho butterflies.

Emergent layer

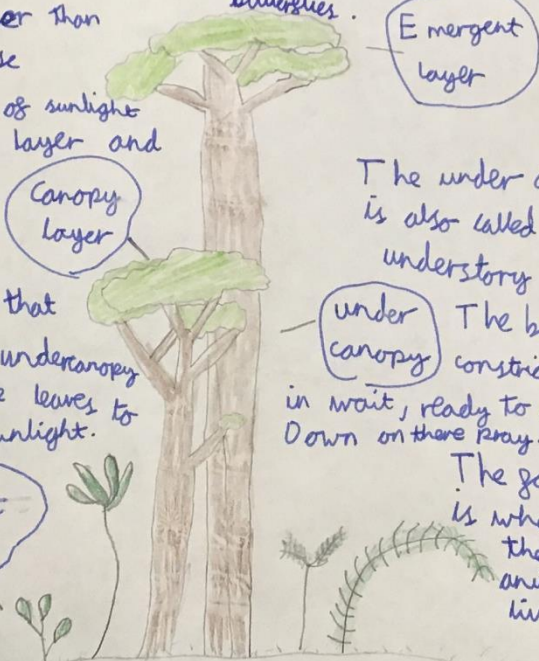
The under canopy is also called the understory

The boa constrictors lie in wait, ready to drop down on their prey.

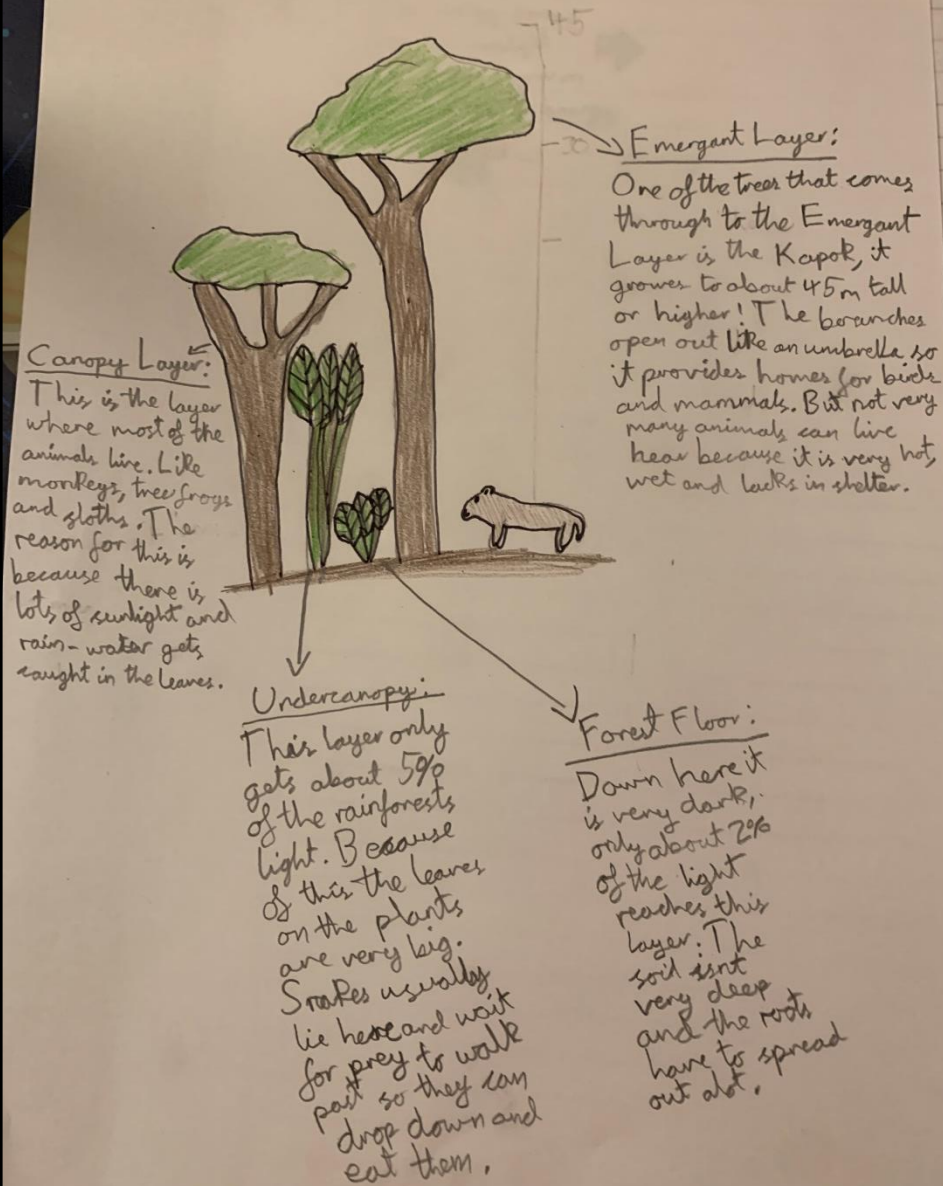
under canopy

The forest floor is where all the larger animals live.

The forest floor is dark and damp place. Only 2% of the sunlight reaches the forest floor.



The Layers of the Rainforest



Emergent Layer:

One of the trees that comes through to the Emergent Layer is the Kapok, it grows to about 45m tall or higher! The branches open out like an umbrella so it provides homes for birds and mammals. But not very many animals can live here because it is very hot, wet and lacks in shelter.

Canopy Layer:

This is the layer where most of the animals live. Like monkeys, tree frogs and sloths. The reason for this is because there is lots of sunlight and rain - water gets caught in the leaves.

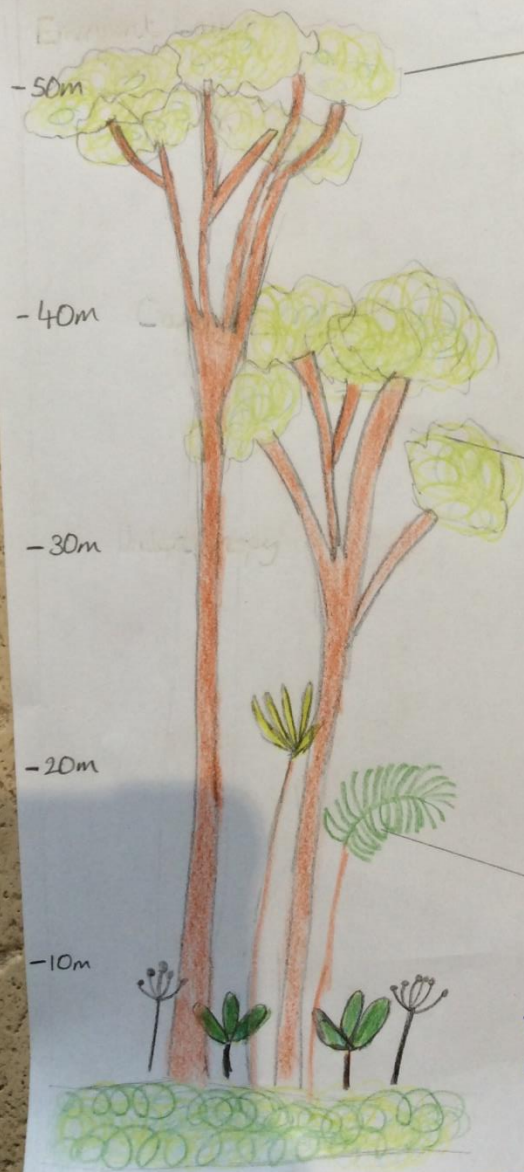
Undercanopy:

This layer only gets about 5% of the rainforest's light. Because of this the leaves on the plants are very big. Snakes usually lie here and wait for prey to walk past so they can drop down and eat them.

Forest Floor:

Down here it is very dark, only about 2% of the light reaches this layer. The soil isn't very deep and the roots have to spread out a lot.

Structure of The Tropical Rainforest

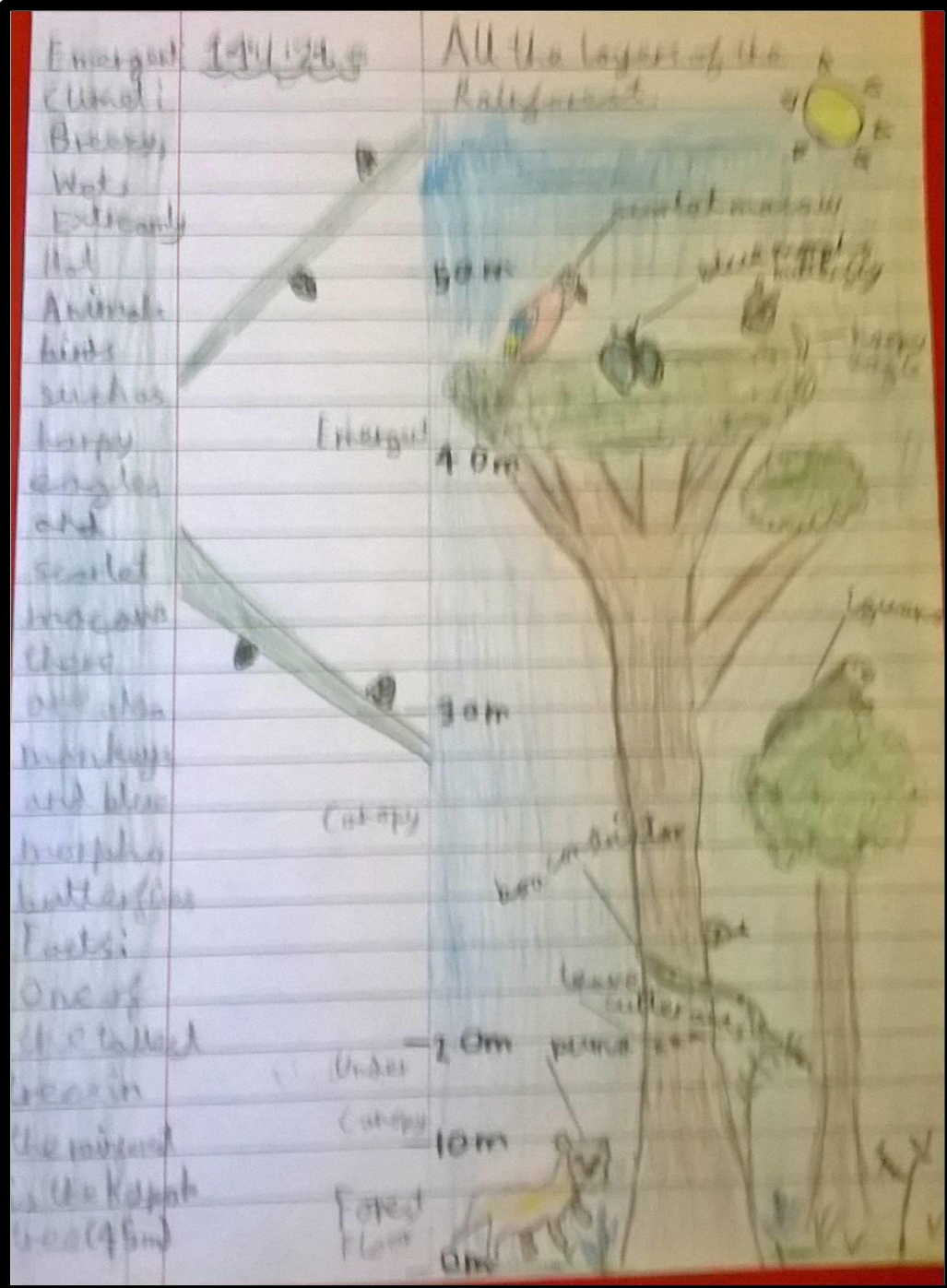


The Emergent Layer is the highest layer and is over 45m tall. Only some animals live in the Emergent Layer as it is very hot. Harpy eagles, scarlet macaws and morpho butterflies are some of the animals that live in this layer. It has quite sparse vegetation.

The Canopy Layer is made of the branches and trees, between 30-45m off the ground. Lots of animals live in this layer as there is very dense vegetation. Some animals include howler monkeys, red eyed tree frogs and sloths. The rainwater collects in the leaves and lots of sunlight gets through to this layer.

The Undercanopy consists of leafy bushes small trees and vines. Leaf cutter ants roam around this part of the rainforest, they can make their own food!

The Forest floor consists of roots and soil.



Emergent
 Clouds
 Breezy
 Wet
 Extremely
 Hot
 Animals
 birds
 snakes
 large
 eagles
 and
 scarlet
 macaws
 there
 are also
 monkeys
 and blue
 morpho
 butterflies
 Facts:
 One of
 the tallest
 trees in
 the world
 is the Kapok
 tree (15m)

50m
 40m
 30m
 20m
 10m
 0m

All the layers of the Rainforest.

sun

leaves

under canopy

Forest floor

Layers of the rainforest

Forest floor

You can't see it from up here but it is a hot damp and dark place. The soil isn't very rich in nutrients. Only 2% of the sunlight reaches the forest floor. The trees have wide roots for stability in the then rainforest

soil. It also gives the trees the nutrients they need. Living among the dead leaves are leaf cutter ants. They amazingly grow their own food.

Canopy layer

The canopy layer is between 30 and 45 metres off the ground. More plants and animals live in this layer. A lot of sunlight reaches it and rain collects on the leaves. Lianas or vines try to get to sunlight by wrapping themselves around the trunks. This creates a path for animals.

Emergent Layer

The trees in the Emergent layer sometimes get to the height of 45 metres or higher.

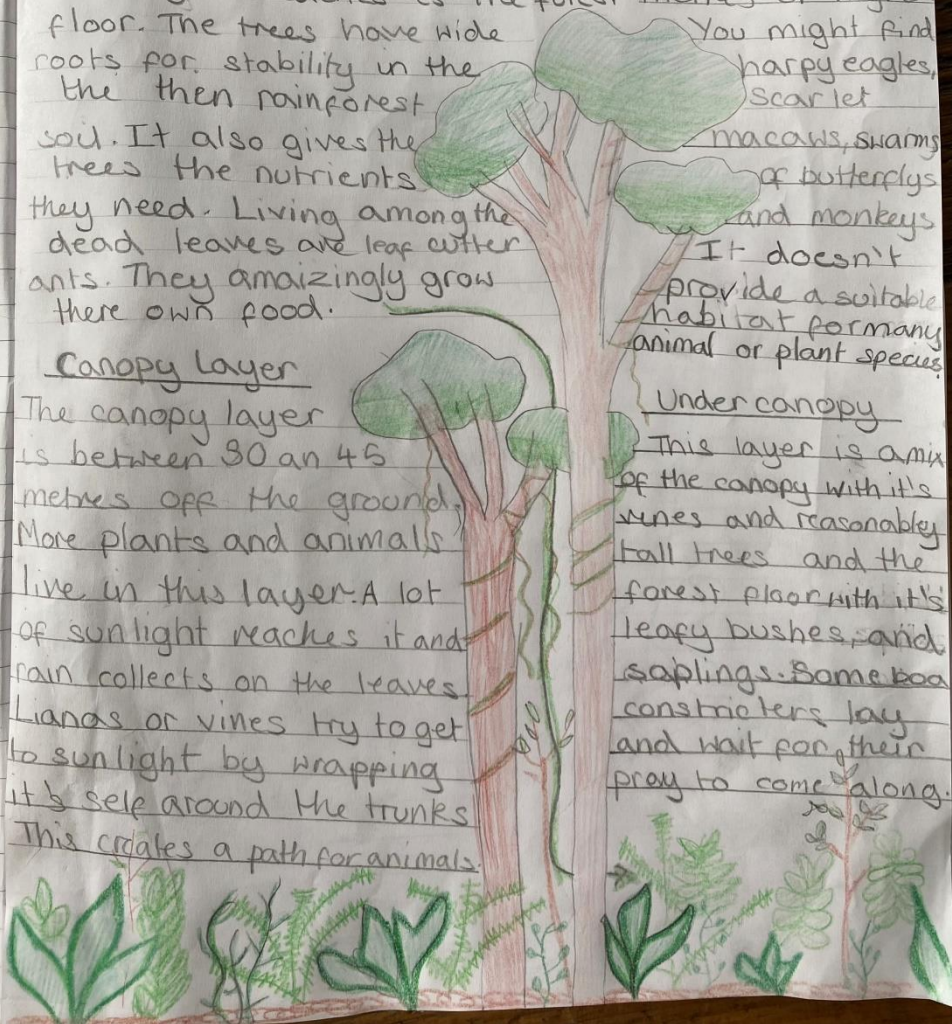
You might find harpy eagles, scarlet

macaws, swarms of butterflies and monkeys

It doesn't provide a suitable habitat for many animal or plant species.

Under canopy

This layer is a mix of the canopy with its vines and reasonably tall trees and the forest floor with its leafy bushes and saplings. Some boa constrictors lay and wait for their prey to come along.



The Forest Layers

The Emergent layer is where only the tallest trees grow. It is wet and lacks shelter. It is also breezy and can sometimes be the hottest layer.

In the canopy layer most plants and animals live so it catches most of the sunlight.

The forest floor is very dark because all of the upper layers block the sunlight from coming through.



The under canopy is made from large shrubs and small trees where animals catch fruit to leap out and their prey.

snake

snake

mushrooms

13th January

Rainforests

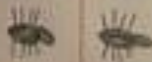


This is the canopy layer. It is made up of lots of different trees and is usually between 30 and 40 meters high. The plants have adapted to growing and trying to get sunlight. You may find frogs, toads, monkeys and sloths here.

This is the emergent layer. It is made up of tall trees and is usually between 45 meters, 40 and 50 meters high. These plants have adapted to life in the rainforest by growing taller and getting used to the weather. You may find monkeys and birds and hairy eagles here.

This is the forest floor layer. It is made of dead leaves and soil and is the floor of the rainforest. These plants have adapted to life in the rainforest by growing their roots above ground so they can survive. You may find leopards, chameleons, leaf cutter ants and other insects.

This is the undercanopy layer. It is made up of leafy bushes, small trees and saplings and is usually between 20 and 30 meters high. These plants have adapted to life in the rainforest by having to have large leaves and they have to live in the dark. You may find here snakes and sloths.



Rainforests

This is the Emergent layer. It is

made up of tall trees and is usually between 45m or higher. These plants have adapted to live in the rainforest by growing tall to get to the sun.

You may find ~~these~~ trees here.

most of the branches

This is the forest floor. It

is made up of lots of bushes and plants and is usually between 0-10m high. These plants have adapted to life in the rainforest by getting ~~the~~ ~~ground~~ so they can provide the nutrient they need. You may find leafcutter ants here.



This is the canopy layer. It is made up of lots of different trees and is usually between 30-40m high. These plants have adapted to life in the rainforest by (leaves) developed drip tips. You may find howler monkeys here.

This is the undercanopy layer. It is made up of bushes saplings and is up to 10-20m high. These plants have adapted to the rainforest by growing larger leaves to help them capture all the sun-light they can get. You may find snakes and sloths here.



Wednesday 12th June 08

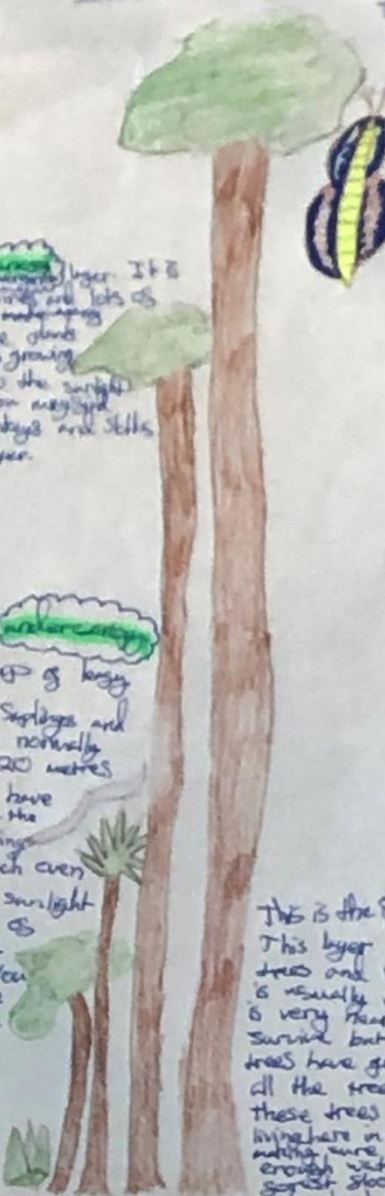
Rainforest

This is the emergent layer. It is made up of trees, vines and lots of shrubs and is usually made up of 15 metres high. These plants have adapted to life by growing tall the trees to get to the sunlight and lots of fruit. You may find tree frogs, howler monkeys and sloths here in the emergent layer.

This is the understorey layer. It is made up of large shrubs, small trees, saplings and vines. This layer is normally between 10 and 20 metres high. These plants have adapted to live in the rainforest by growing and growing to catch even the tiniest bit of sunlight and also because of the leaves that get bigger and larger. You may also find tree snakes and sloths.

This is the forest floor layer. This layer is made up of roots, trees and very little rainforest and is usually very dry and hot and is very dark. Not expected to survive but as the roots of the trees have grown above the soil all the trees can survive. These trees have adapted to living here in the rainforest by making sure the trees roots get enough water to survive. The forest floor is dark and it is only about 5 metres high.

This is the canopy layer. It is made up of trees, shrubs and vines. It is usually between 10 and 20 metres high. These plants have adapted to life in the canopy by having to grow very tall. You may find tree frogs, sloths and tree snakes here.



Emergent Layer ^{50m}

Parrots live here

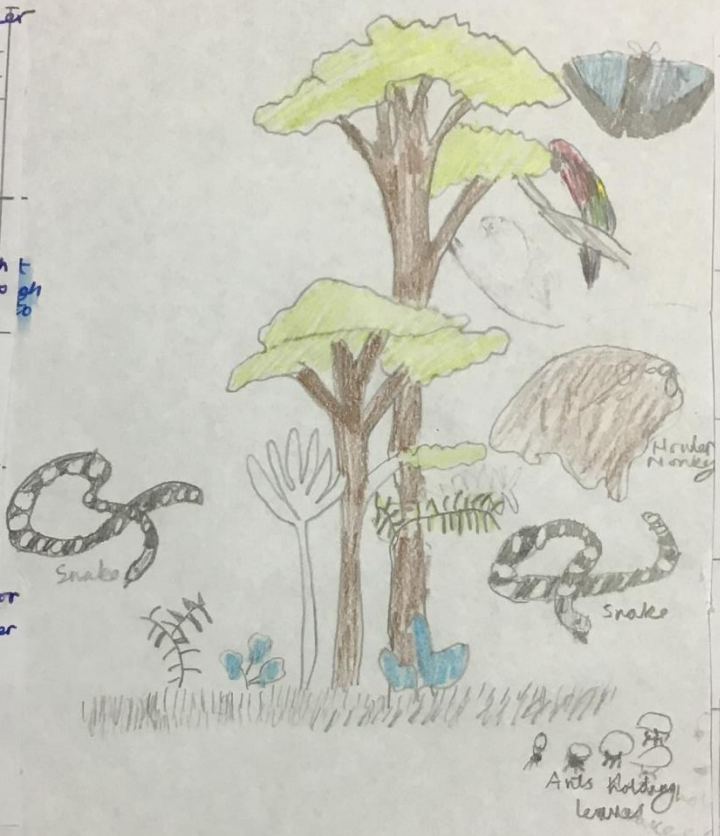
Emergent Layer ^{40m}
 Only very tallest trees break through the canopy layer to get here

Canopy Layer ^{30m}
 Howler monkey's live here

Under canopy Layer ^{20m}
 It is also called the understory because it is between forest floor and canopy layer

Forest Floor ^{10m}
 Ants live here

0m



50m Emergent Layer
 It does not provide a good habitat for many plants

40m Emergent Layer
 Butterfly's live here

30m Canopy Layer
 The canopy layer has 99% sunlight here.

20m Under canopy layer
 Snakes live here

10m Forest Floor
 Only 2% of the sunlight that falls on a rainforest reaches the forest floor

0m

Emergent layer

The Kapok tree is one of the giants of the rainforest, growing to 45m (150 feet) or higher.

Canopy layer

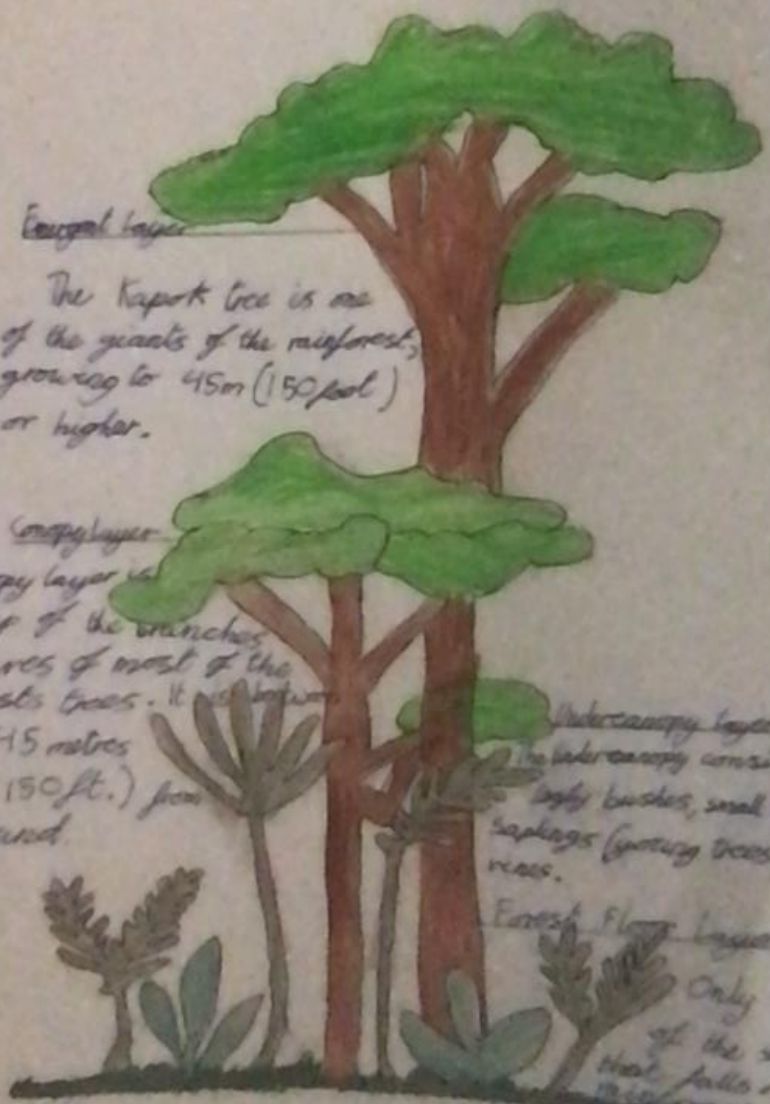
The canopy layer is made up of the branches and leaves of most of the rainforest's trees. It is between 30 and 45 metres (100 and 150 ft.) from the ground.

Undercanopy layer

The undercanopy consists of large bushes, small trees, saplings (young trees) and vines.

Forest Floor Layer

Only 2% of the sunlight that falls on the rainforest reaches the forest floor.



The Tropical Rainforest

Height (metres)



Emergent Layer

This layer is breezy, wet and lacking in shelter. It can also be very hot and is therefore a rather inhospitable place for many plants and animals. However the animals that do live there include Monkeys, Birds and Butterflies.

Canopy Layer

Animals that live in the canopy layer of rainforests are red eyes tree frogs, Howler monkeys, sloths, toucans and iguanas.

Undercanopy layer

The undercanopy consists of leafy bushes, small trees, saplings and vines. The plants that grow here tend to have large leaves. This layer is where boa constrictors lie down.

Forest Floor layer

The Forest floor is where the largest rain forest animals are found. Roots such as the roots of the tree are known as "buttress roots".

Emergent layer

50m

Harpies Eagles,
Scarlet macaws,
monkeys,
blue morpho butterflies
and Kapok trees, all are
in the Emergent layer

Canopy layer

30m

iguanas, sloths, tree frogs,
toucans, howler monkeys,
Epiphytes, and Lianas are all in the
canopy layer

Under Canopy Layer

180m

leaf cutter ants, large leaves,
boa constrictor
are all in the
under
canopy
layer

Forest floor layer

0m

dead leaves and
leafcutter ants are in the forest floor layer

