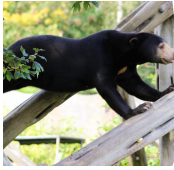










# Rainforest Logic Puzzle

Use the clues to work out which animal lives in which layer of the rainforest. Each layer can have more than one animal, but each animal only belongs to one layer.

 Malayan Sun <b>Bear</b>	 Visayan Spotted <b>Deer</b>	 Red-fronted <b>Macaw</b>
 Pygmy <b>Hippo</b>	 <b>Chimpanzee</b>	 Buff-Cheeked <b>Gibbon</b>
 Blue Poison Dart <b>Frog</b>	 Coppery Titi <b>Monkey</b>	 Southern <b>Cassowary</b>



## Second Level Clues

1. The **macaw** lives higher up than any of the apes.
2. The **chimpanzee** lives in the same layer as the animal that forages for honey.
3. This **flightless bird** lives in the lowest layer.
4. The **sun bear** lives just below the gibbon.
5. The **pygmy hippo** lives in the same layer as the cassowary.
6. This **poisonous amphibian** lives lower than the macaw but higher than the pygmy hippo.
7. The **coppery titi monkey** lives one layer above the poison dart frog.
8. The **cassowary** lives below the chimpanzee.
9. The **macaw** is living alone in its layer.
10. Three animals live on the **forest floor**.

# Animal Fact File

Here are a few interesting facts about each of the animals featured in the puzzle. **You will need these to solve the Second Level clues.**

The puzzle is about which rainforest **layers** they live in. However, as they all live in rainforests in different parts of the world, so they don't necessarily live together.

**Red-fronted Macaw:** A critically endangered species native to Bolivia.

**Chimpanzee:** A species of great ape native to tropical Africa.

**Malayan Sun Bear:** The world's smallest species of bear found in Southeast Asia.

They forage for a variety of food items, including insects, fruits, and honey.

**Buff-Cheeked Gibbon:** A species of ape that is primarily found in Southeast Asia.

**Southern Cassowary:** A large flightless bird found in Indonesia, Papua New Guinea, and northeastern Australia. It primarily feeds on fallen fruit.

**Blue Poison Dart Frog:** Found in only a few isolated areas of rainforest in Suriname and Brazil. Among the most poisonous amphibians in the world.

**Coppery Titi Monkey:** A species of monkey from South America, mainly Brazil, Peru and Bolivia.

**Pygmy Hippo:** A semiaquatic herbivore native to the forests of West Africa.

**Visayan Spotted Deer:** A species of deer normally found in the rainforests of the Visayan Islands (Philippines). Most active at dawn and dusk.

[illegible]

*Please note: In real life, most of these animals inhabit more than one layer. For the sake of this puzzle, we have simplified it to the layer they are most associated with.*

Rainforest Layers	Animals
<p data-bbox="220 1547 284 1995"><b>Emergent Layer</b></p> <p data-bbox="316 1431 453 2114">This top layer gets the most sunlight due to its sparse foliage. Home to some of the rainforest’s oldest and tallest trees, it’s mainly inhabited by animals that get around by flying or gliding around the treetops.</p>	
<p data-bbox="539 1659 603 1883"><b>Canopy</b></p> <p data-bbox="619 1420 791 2107">This layer provides shelter to the layers below and blocks out the elements, creating a dark, humid environment. Rich in food, it supports more species than any other layer. The majority of animals here can either fly or easily manoeuvre across tree branches.</p>	
<p data-bbox="858 1592 922 1951"><b>Understorey</b></p> <p data-bbox="938 1435 1110 2107">Dark and humid, this layer makes up for the low light with bright and strong-scented flowers that attract pollinators. While new plants and shrubs grow here, they rarely reach great heights. Animals living here often thrive in humidity.</p>	
<p data-bbox="1185 1592 1249 1939"><b>Forest Floor</b></p> <p data-bbox="1265 1435 1437 2107">The darkest layer of all, with little sunlight reaching the ground. Few plants grow here, and the floor is mostly covered in fallen leaves and decaying matter. This lowest layer is also prone to flooding during heavy rainfall.</p>	

**SPOILER ALERT!**

**solution below**

Rainforest Layers	Animals
<p><b>Emergent Layer</b></p> <p>This top layer gets the most sunlight due to its sparse foliage. Home to some of the rainforest’s oldest and tallest trees, it’s mainly inhabited by animals that get around by flying or gliding around the treetops.</p>	<div data-bbox="196 1142 365 1310"></div> <div data-bbox="387 1149 448 1303">Red-fronted <b>Macaw</b></div>
<p><b>Canopy</b></p> <p>This layer provides shelter to the layers below and blocks out the elements, creating a dark, humid environment. Rich in food, it supports more species than any other layer. The majority of animals here can either fly or easily manoeuvre across tree branches.</p>	<div data-bbox="517 1135 686 1305"></div> <div data-bbox="708 1131 769 1305">Buff-Cheeked <b>Gibbon</b></div> <div data-bbox="517 907 686 1077"></div> <div data-bbox="708 918 769 1077">Coppery Titi <b>Monkey</b></div>
<p><b>Understorey</b></p> <p>Dark and humid, this layer makes up for the low light with bright and strong-scented flowers that attract pollinators. While new plants and shrubs grow here, they rarely reach great heights. Animals living here often thrive in humidity.</p>	<div data-bbox="844 1158 1005 1321"></div> <div data-bbox="1027 1164 1054 1321"><b>Chimpanzee</b></div> <div data-bbox="844 927 1011 1099"></div> <div data-bbox="1034 952 1094 1070">Malayan <b>Sun Bear</b></div> <div data-bbox="844 692 1011 866"></div> <div data-bbox="1034 701 1094 842">Blue Poison <b>Dart Frog</b></div>
<p><b>Forest Floor</b></p> <p>The darkest layer of all, with little sunlight reaching the ground. Few plants grow here, and the floor is mostly covered in fallen leaves and decaying matter. This lowest layer is also prone to flooding during heavy rainfall.</p>	<div data-bbox="1160 1151 1331 1319"></div> <div data-bbox="1353 1173 1414 1310">Southern <b>Cassowary</b></div> <div data-bbox="1160 920 1331 1093"></div> <div data-bbox="1353 960 1414 1048">Pygmy <b>Hippo</b></div> <div data-bbox="1160 694 1331 860"></div> <div data-bbox="1353 687 1414 860">Visayan <b>Spotted Deer</b></div>

# Rainforest Logic Puzzle

## SOLUTION

### Second Level Clues

**The macaw lives higher up than any of the apes.**

Using our *Animal Fact File*, we can identify that the chimpanzee and the gibbon are apes. We don't know which layer they live in yet, so let's lay them out on the table first and not stick them on to our grid yet. We can place the macaw above the chimpanzee and the gibbon.

**The chimpanzee lives in the same layer as the animal that forages for honey.**

Using our *Animal Fact File* again, we can identify that the sun bear is the animal that forages for honey. So we can add the sun bear next to the chimpanzee and the gibbon.

**This flightless bird lives in the lowest layer.**

There are two birds among the animals. We already know the macaw lives higher up, and our *Animal Fact File* confirms the flightless bird is the cassowary. The lowest layer is the Forest Floor, so we can stick the cassowary on to the Forest Floor on our grid.

**The sun bear lives just below the gibbon.**

We can move the sun bear below the gibbon, and also the chimpanzee as the sun bear and the chimpanzee live in the same layer. But we don't know yet if they live in the same layer as the cassowary or above it, so we can't stick them down yet.

**The pygmy hippo lives in the same layer as the cassowary.**

Easy! Stick the pygmy hippo next to the cassowary on the Forest Floor.

**The poisonous amphibian lives lower than the macaw but higher than the pygmy hippo.**

Our *Animal Fact File* confirms the poisonous amphibian is the poison dart frog. We don't know yet what layer the macaw lives in, but we do know the pygmy hippo lives on the Forest Floor and the macaw needs to be above the frog, so the frog lives either in the Canopy or the Understorey.

**The coppery titi monkey lives one layer above the poison dart frog.**

We know the poison dart frog lives either in the Canopy or the Understorey, so the monkey must live either in the Canopy or the Emergent Layer.

**The cassowary lives below the chimpanzee.**

We now know the cassowary is below the chimpanzee and sun bear; the chimpanzee and sun bear are below the gibbon; and the gibbon is below the macaw. So we can stick all four of them on to our grid (cassowary = Forest Floor; sun bear and chimpanzee = Understorey; gibbon = Canopy; macaw = Emergent Layer). The verdict is still out on the coppery titi monkey and the poison dart frog.

**The macaw is living alone in its layer.**

As the macaw is the only animal in the Emergent Layer, we have to move the coppery titi monkey down to the Canopy. So then we have to move the poison dart frog down to the Understorey.

**Three animals live on the forest floor.**

We only have the deer left to place. Three animals live on the Forest Floor, but there are currently only two on the grid (cassowary and pygmy hippo), so the deer must be the third.