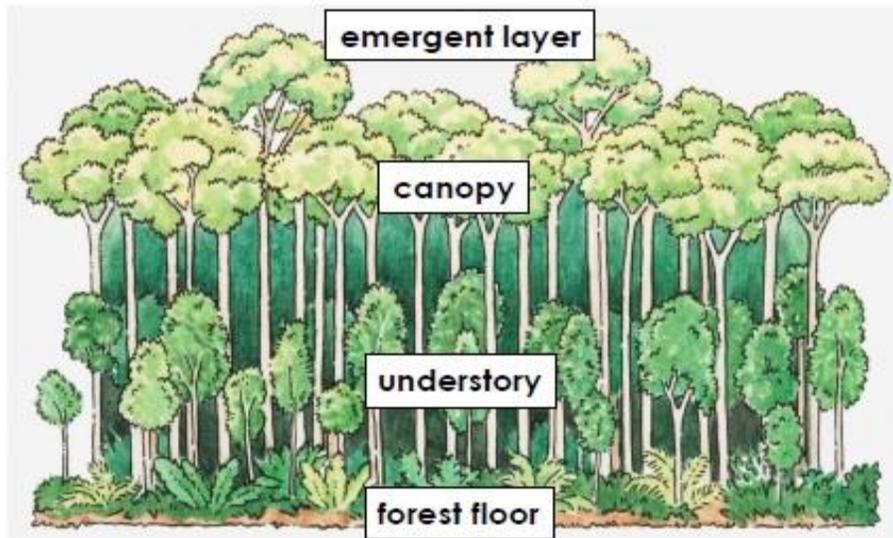


STEAM Animal Adventures

| Name of Steam Activities | Materials for STEAM Activities |
|--|--|
| <p>Activity #1--Tropics</p> <p>Animals of the Rainforest</p> | <p>Layers of the Rainforest, forest floor, understory, canopy, and emergent layer</p> <p>Let's draw the Rainforest</p> <p>What lives in each layer</p> <ul style="list-style-type: none"> ● Forest Floor ● Understory ● Canopy ● Emergent Layer <p>Paper, Colors, markers, map pens.</p> |
| <p>Activity #2--Tropics</p> <p>Animals of the Rainforest</p> | <p>Blue Morpho Craft</p> <p>white construction paper chenille stem black or any color crayons clothes pin markers glue</p> <p>How can this insect camouflage?</p> |
| <p>Activity #3</p> <p>Animals of the Polar Region</p> | <p>What are the two Polar Regions Arctic and Antarctic</p> <p>What animals live in these regions?</p> <p>Polar Bear Penguins Albatross</p> <p>What is their habitat? How can they camouflage or protect themselves? What is their diet?</p> |

| <p>Name of Steam Activities</p> | <p>Materials for STEAM Activities</p> |
|---|---|
| <p>Activity #4 Measurement of Polar Animals</p> | <p>How long are these polar animals? Polar Animals chart Masking tape Measuring tape Yardstick Ruler</p> |
| <p>Activity #5 Ocean Zones</p> | <p>What are the Ocean Zones? How many do we have? What type of ocean animals live there? Sunlit Zone Midnight Zone Twilight Zone Abyss The Trenches</p> |
| <p>Activity #6 Jellyfish in a Jar</p> | <p>Jellyfish--Are jellyfish a fish? What makes them float? What is a group of jellyfish called? What color is a jellyfish? Make jellyfish in a jar plastic bottle clear plastic bag water thread, string, yarn food coloring</p> |

Activity # 1 Layers of the Rainforest



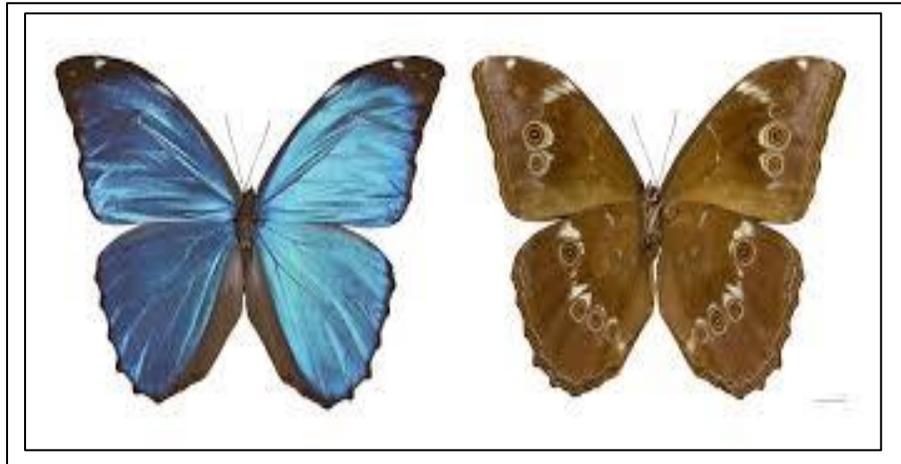
Tropical Rainforest Strata

Instructions/Directions:

Let's draw the layer of the Rainforest

1. Paper, markers, or crayons, and white paper.
2. Draw on a sheet of white paper the Forest Floor--very green, small bushes.
3. The next layer up is the Understory--start to see small trees, tall bushes, and downed trees.
4. The next layer will be the Canopy--taller tree, vines.
5. The top layer is the Emergent layer--tallest of the trees.
6. Pictures of Rainforest animals or you can draw pictures of your own.

Activity # 2 Blue Morpho Butterfly



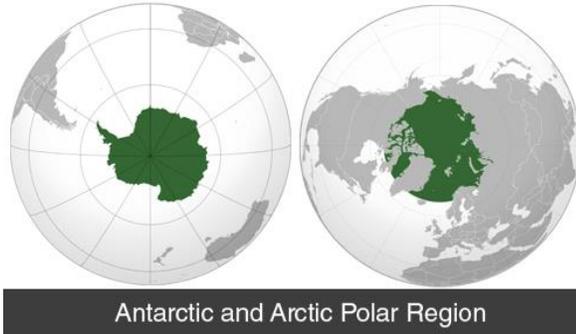
Instructions/Directions:

1. Using the white construction paper cut out the butterfly shape
2. Using a black marker or crayon, draw an outline the butterfly
3. Using a blue crayon color the inside blue
4. Turn to the underside of butterfly and color brown make some eyes
5. Glue the clothespin, add black chenille stem for antenna

How can this insect camouflage?

Activity # 3

The Arctic and the Antarctic



<https://www.coolkidfacts.com/polar-climate-facts/>

1. What are the two Polar Regions? Arctic and Antarctic
2. What animals live in these regions?
3. What are other animals? Polar Bears, Penguins, Albatross
4. What is their habitat?
5. How can they camouflage or protect themselves?
6. What is their diet?

Activity # 4

Name of STEAM Craft/Experiment

Arctic Animal Sizes

from *Preschool Powl Packets*



lemming: 3 inches tall



snowy owl: 2 feet tall



orca: 25 feet long



muskox: 5 feet tall



narwhal: 17 feet long



polar bear: 10 feet tall when standing on 2 feet



reindeer: 6 feet tall



arctic fox: 12 inches tall

* images not to scale!

<http://preschoolpowlpackets.blogspot.com>

Instructions/Directions:

1. Look at the chart and pick one animal.
2. What is the measurement?
3. Use the tape/chalk on the floor with that measurement.

Activity # 5

Ocean Zones



Instructions/Directions:

1. What are the Ocean Zones?
2. How many do we have?
3. What type of ocean animals lives in each of the zones?

- Sunlit Zone
- Midnight Zone
- Twilight Zone
- Abyss
- The Trenches

Research to find different animals in each of the zones.

Activity # 6

Jellyfish in a Jar



Instructions/Directions:

1. Cut the handles, the bottom and the sides of the bag off.
2. With one sheet of the plastic bag, grab the middle to make a balloon-shaped head of the jellyfish.
3. Take the thread or string and tie it around the head and leave a little opening.
4. Cut strips of the plastic bag to make the tentacles of the jellyfish. make some long and short
5. Fill your bottle with water.
6. Pour a little water into your jellyfish; leave a little air to make your jellyfish float up and down. Tie the head of the jellyfish tightly.
7. Place the jellyfish headfirst into the bottle, add food coloring, and securely tighten the lid. Give the bottle a little shake.

Arctic Animal Sizes

from Preschool Powol Packets



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