Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Hyperlink Habitats

**Purpose**

The purpose of this lab is to explore the interconnectedness of a tropical rainforest ecosystem. You will understand a variety of concepts related to ecosystems and the relationships between the water, carbon & nitrogen cycles. You will also create a map of the Hyperlink Habitat illustrating the relationships among various elements in the nutrient cycles.[[1]](#endnote-1)

**Procedure**

**Materials**

1. Internet Connection
2. Blank paper

**Sequence of Steps**

1. C:\Users\Angela\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\DRP2N1IJ\MCj04242300000[1].wmfComplete pre-lab questions.
2. Type in the website: [http://school.discovery.com/lessonplans/activities/hyperlinkhabitat/#](http://school.discovery.com/lessonplans/activities/hyperlinkhabitat/)
3. You need to now click on the underlined link in the first procedure paragraph: Hyperlink Habitat
4. A small information box will come up and give you information about a tropical rainforest. You need to read all this information and click on every link until no links are “blue” any longer.
5. When you have finished researching, you will need to create a map illustrating how the 10 tropical rainforest elements you researched are interconnected. Use a two-way arrow for mutualism relationships. Use a one-way arrow for other relationships with the arrow pointed at the organism that is either not affected or negatively affected.
6. Your map needs to include the following 10 elements:
   * Soil & Nutrient Cycle
   * Ants
   * Photosynthesis
   * Canopy Trees
   * Water Cycle
   * Indians
   * Frogs
   * Bromeliads
   * Monkeys
   * Deforestation
7. Please title your map “The Tropical Rainforest”.
   * Put a star next to each element that is involved in the **carbon cycle**.
   * Underline the elements that are involved with the **water cycle**.
   * Circle the elements that are involved in the **Nitrogen** cycle.
   * (Some elements may be involved in more than one cycle, or all three!)
8. When you finish drawing your Habitat map, please show your instructor and then get the “official” copy of the map.
9. Compare your map to the actual Habitat map for the Tropical Rainforest. Note any differences between the two and why they may be different.
10. Next you will create a new Habitat map using the same techniques for the Ecosystem in which you live! (Think of your environment and the interconnectedness that you see or experience each day.) You may create your map either on the computer or by hand.
11. List 10 different elements for your ecosystem. Remember that you need to include elements that are part of the carbon, water, or nitrogen cycles!! You may use the computer to research these elements if you need more information for your ecosystem.
12. C:\Users\Angela\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\DRP2N1IJ\MCj04242300000[1].wmfUsing your 10 elements, create your own Habitat map on a separate sheet of paper, including the arrows and identifying characters for the various biogeochemical cycles (star, circle, or underline). Be sure to include a title of your ecosystem on your Habitat map.
13. Complete the Analysis & Conclusions section.

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**Pre-lab Questions**

1. What nutrient cycles will you find in a tropical rainforest?
2. How would plant and animal species in a rainforest be interconnected?
3. What effects would different species have on one another, if any?
4. Define the following terms:
   1. Parasitism
   2. Mutualism
   3. Commensalism

**Analysis and Conclusions**

After your map is complete, write a three-paragraph description of your Habitat map and an explanation of the elements you chose. (Your paper needs to be similar to the explanation you read on the internet for the tropical rainforest.)

Written Paper Requirements:

* Please bold or underline the elements in your paper that can be found in your Habitat map and include a heading and title.
* Each paragraph needs to be at least 5 sentences long. (You will be graded on your content and that it explains your Habitat map!)
* Only use Arial or Times New Roman size 12 point font.
* Double space your paper.
* At the end of this lab, you need to turn in your written paper for the Ecosystem you chose, with the Habitat map for that ecosystem stapled to the back.

Written Paper is due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (2008).Hyperlink Habitats. *Atwater High School Ag Dept.* [↑](#endnote-ref-1)