

Name _____



PLANT EVOLUTION WEBQUEST

Click to visit: <http://www.humboldt.edu/natmus/plants/index.html>

Click on the word "Exhibits," located in the menu on the left of the web page then click on the displayed exhibit: **Plant evolution**

Step 1: click on the **Timeline** across the top of the page.

1. How long ago was the primary evidence of photosynthesis? _____
2. Estimate: when did conifers appear on the Earth? _____
3. Estimate: when did flowering plants appear on Earth? _____

Step 2: return, click on the **What Makes a Plant a Plant link**.

1. What are four characteristics that make a plant a plant?

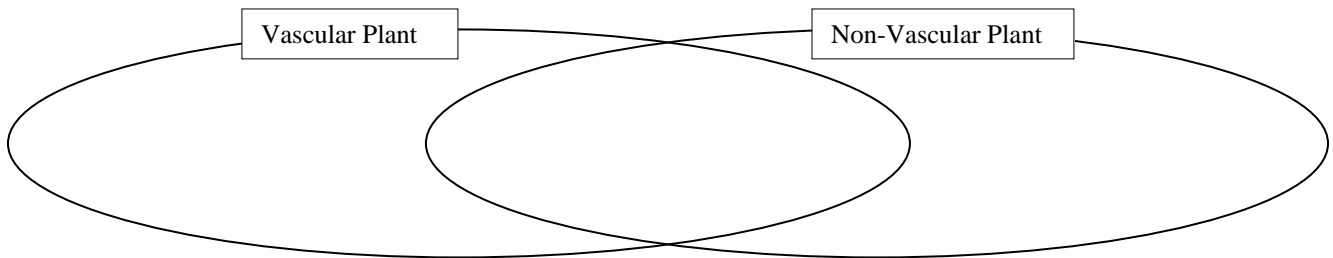
2. What is the formula for photosynthesis?
Carbon Dioxide+_____+Light Energy→_____+Oxygen
3. What does the cell wall do for the plant? _____
4. What is the purpose of the cuticle? _____

Step 3: click on **The Making of a Seed: Cone or Flower?**

Step 4: click on **Gymnosperm** (click again to enlarge)

1. What is a **Vascular** plants _____

_____.
2. When did **Gymnosperms** first arrive on Earth? _____
3. List three examples of a **Gymnosperm**: _____,
_____, and _____.
4. What is the most common way that **Gymnosperms** are pollinated? _____



Step 6: Return to **The Making of a Seed...**

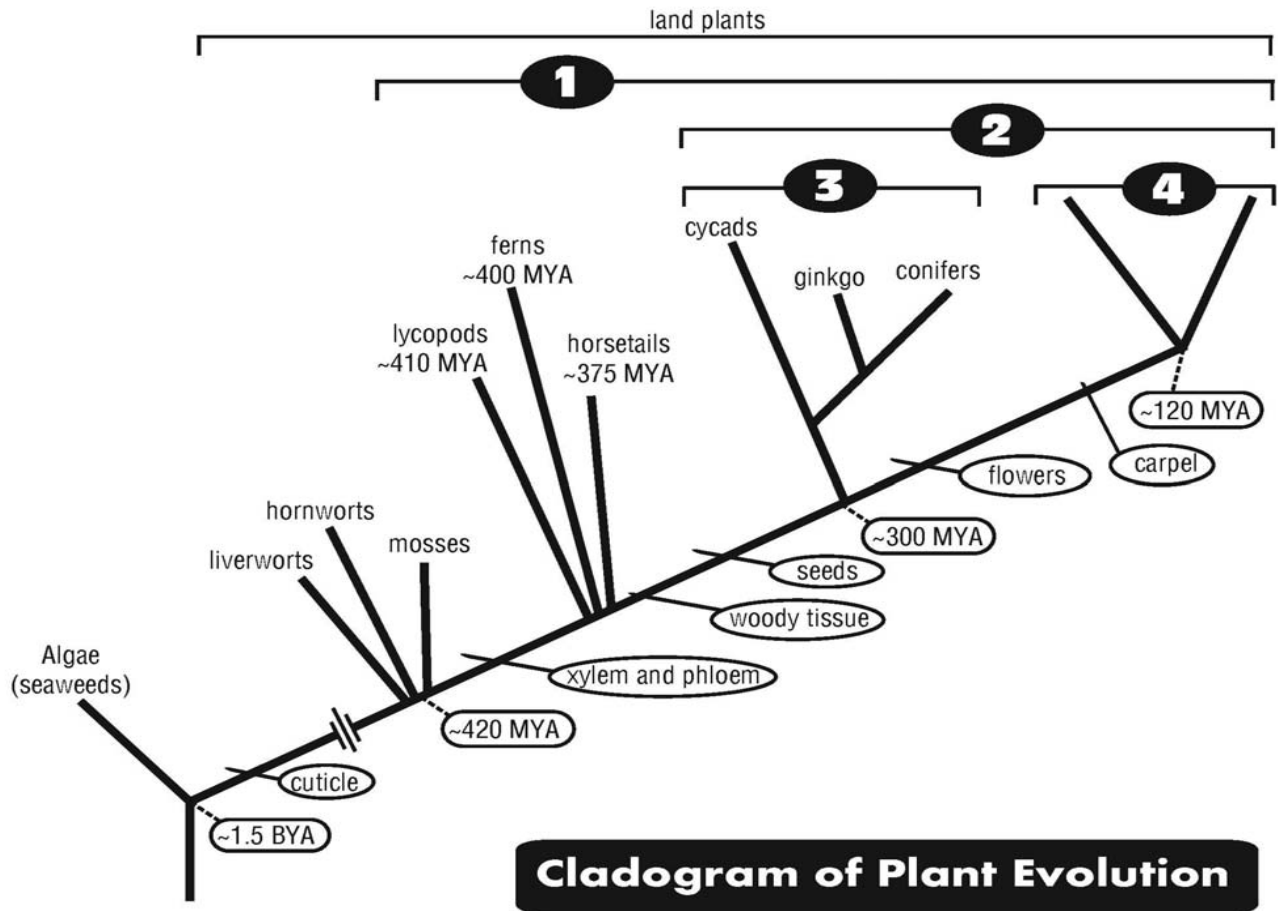
Step 7: click on **Angiosperm** (click again to enlarge)

1. Where do **Angiosperms** keep their seeds? _____
2. How are these plants seeds pollinated? _____

3. When did **Angiosperms** appear on Earth? _____.
4. Name 3 examples of **Angiosperms**: _____,
_____, and _____.
5. Based on what you now know...What are some angiosperms that humans eat? _____
_____. (Over...)

Step 8: click on **plant home**

Step 11: click on **Cladogram of Plant Evolution**. Look over the cladogram and fill in terms for 1-4.



1. Click on *Angiosperms*. What are three ways angiosperms are different than gymnosperms?

2. Click on *Gymnosperms*. What does Gymnosperm mean?

3. Click on *Conifer*. What is a conifer?

4. Click on *lycopods*, *ferns* or *horsetails* and list at least one interesting fact.

5. Click on *liverworts*, *hornworts* or *mosses* and list at least one interesting fact.

6. Click on *algae* and list at least one interesting fact.
