

# Plant Diversity Project

What kinds of plants are there? You know already that there are nonvascular plants, vascular plants, seedless plants, seed plants, cone-bearing plants, flowering plants, monocots, and dicots. And don't forget about "chit-tin."

But what do you know about the different groups of plants? A little, yes. But a lot? No. Guess what? Here's your opportunity to learn more about plant groups. Also, you will have the opportunity to teach your peers about your assigned plant group. (Behold the triumphant return of the mini-posters...)

## Here's the timeline:

Date	Topic
Thursday 3/8	Project introductions, Gather "intel" on your plant group
Friday 3/9	Gather intel
Monday 3/12	Complete gathering Intel (access to computers), construct mini-posters
Tuesday 3/13	Finish mini-poster construction (if necessary), "present" to group

So here's the skinny. Your grade on this Plant Diversity Project (WORTH 40 POINTS) will consist of 4 parts:

1. 25% - Quality of the "intel" you collect
2. 25% - Quality of the mini-poster you create
3. 25% - Execution of the presentation of your mini-poster
4. 25% - Participation and time management (if I have to tell you to get on task, know you'll be losing points in this area)

## Allow me to anticipate some of the questions you have:

- 1) What do you mean by "intel?" \_\_\_\_\_
- 2) Where can I find said "intel?" \_\_\_\_\_
- 3) What is my plant group? \_\_\_\_\_
- 4) On what do I construct my mini-poster? \_\_\_\_\_
- 5) What should I put on my mini-poster? \_\_\_\_\_
- 6) What do I need to do to "present mini-poster info to small group" on Thursday?  
\_\_\_\_\_
- 7) What does creating a "quality" mini-poster entail? \_\_\_\_\_
- 8) What happens if I miss a day this week? \_\_\_\_\_

Any other questions?

# Mini-poster info required for each plant group

(Use this as a guide for the notes you'll need to take come presentation day...)

**1**

## **Nonvascular Plants**

- What's a Bryophyte?
- What are the members of Bryophyta?
- What characteristics are important to understanding each Bryophyte group?
- What is the life cycle of Bryophytes?
- What are some human uses of Bryophytes?

Your bare-bones objectives are to:

1. Describe the adaptations of bryophytes
2. Identify the 3 groups of bryophytes
3. Explain how Bryophytes reproduce

**2**

## **Seedless Vascular Plants**

- What is vascular tissue?
- What are the types of vascular tissue?
- What are the types of seedless vascular plants?
- What characteristics are important to understanding each seedless vascular plant group?
- What is the life cycle of seedless vascular plants?

Your bare-bones objectives are to:

1. Explain how vascular tissue is important to seedless vascular plants
2. Describe the three phyla of seedless vascular plants
3. Identify the stages in the life cycle of ferns

**3**

## **Seed Plants**

- What are the two groups of seed plants?
- How do members of this group reproduce without water?
- How did seed plants evolve?
- What are gymnosperms?
- What are the groups of gymnosperms?
- What characteristics are important to understanding each gymnosperm group?
- What is the ecology of conifers?

Your bare-bones objectives are to:

1. Describe the reproductive adaptations of seed plants
2. Describe the evolution of seed plants
3. Identify the 4 groups of gymnosperms

**4**

## **Flowering Plants**

- What are Angiosperms?
- What are the reproductive structures in this group and how to they work?
- What are 3 ways of categorizing types of angiosperms?
- What characteristics are important to understanding each angiosperm category?

Your bare-bones objectives are to:

1. Identify the characteristics of angiosperms
2. Explain what monocots and dicots are
3. Describe the 3 different life spans of angiosperms