

Botany Merit Badge Worksheet



Requirement 1

Make five field trips of at least two hours each to observe wild plant life. Keep a record based on field notes of varieties of flowers found – with date, place, nature of locality (swamp, roadside, woods, meadows, etc.) and other observations such as seeds, seed pods, leaf arrangements, insect attraction. (Record will be interesting if photographs or sketches are included).

Trip # 1	DATE	PLACE	NATURE OF LOCALITY
Varieties of Flowers Found			
Flower Name (if known)	Describe Leaf Arrangement	Describe Insect Attraction	Other Observation(s)

Trip # 3	DATE	PLACE	NATURE OF LOCALITY
			<input type="checkbox"/> Swamp <input type="checkbox"/> Roadside <input type="checkbox"/> Woods <input type="checkbox"/> Meadow <input type="checkbox"/> Other: _____

Varieties of Flowers Found

Flower Name (if known)	Describe Leaf Arrangement	Describe Insect Attraction	Other Observation(s)

Requirement 2

Identify from living specimens at least fifty (50) plant specimens.

#	Name of Plant Specimen Identified	#	Name of Plant Specimen Identified
1		26	
2		27	
3		28	
4		29	
5		30	
6		31	
7		32	
8		33	
9		34	
10		35	
11		36	
12		37	
13		38	
14		39	
15		40	
16		41	
17		42	
18		43	
19		44	
20		46	
21		46	
22		47	
23		48	
24		49	
25		50	

Scout Name _____ Unit # _____ Date _____

Requirement 3

Identify in three or more specimens, all parts of a perfect and complete flower.

Specimen # 1

Name of Specimen: _____

Specimen # 2

Name of Specimen: _____

Specimen # 3

Name of Specimen: _____

Scout Name _____ Unit # _____ Date _____

Explain how plants are pollinized

Explain how ferns differ from flowering plants

Requirement 4

Identify specimens of at least ten families of flowering plants (other than trees) OR submit properly labeled specimens of such families. This may be included as part of requirement 8b.

#	Name of Specimen	Name the Family of this Flowering Plant Specimen
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Requirement 5

Know what plants are rare in your vicinity.

Name of Your Community / Vicinity: _____

List down plants that are rare in your vicinity.

What is being done or should be done to protect them

Requirement 6

Explain how plants use

Light

Heat

Scout Name _____ Unit # _____ Date _____

Water

Oxygen

Carbon Dioxide

How plant manufacture food

Requirement 7

Submit or identify in the field one specimen each of fungi, algae, lichen, and moss.

Type of Specimen	Name of Specimen	Date Identified	Place Identified
Fungi			
Algae			
Lichen			
Moss			

Requirement 8

Carry out one of the following projects:

- Submit a seed collection, properly labeled, of at least 20 different kind of seeds gathered by yourself. Germinate at least five species. Find out all you can about different varieties of seeds and how they are scattered.

#	Variety of Seed	Information About this Seed	How Are They Scattered?	Germinate?
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Scout Name _____ Unit # _____ Date _____

- Submit specimens of at least thirty (30) species of flowering plants. Include leaf, stem, flower, and root (if specimens are not rare). Mount neatly, label with both common and scientific names, date and place found, and nature of locality.

#	Name of Specimen	Scientific Name	Date Found	Place Found	Nature of Locality
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

Scout Name _____ Unit # _____ Date _____

#	Name of Specimen	Scientific Name	Date Found	Place Found	Nature of Locality
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Make a study of plant life in an area of not less than two square meters for at least two months. Keep a record of species found, type of locality, insect attraction, seeds, etc.

#	Species Found	Type of Locality	Date Found	Insect Attraction	Seeds?
1					
2					
3					
4					
5					
6					
7					

Scout Name _____ Unit # _____ Date _____

#	Species Found	Type of Locality	Date Found	Insect Attraction	Seeds?
8					
9					
10					

Raise a wild flower or fern garden, including at least five different species of plants. Know the following: 1. Both common and scientific names of each. 2. Proper methods of transplanting and care.

#	Common Name	Scientific Name	Proper Methods of Transplanting and Care
1			
2			
3			
4			
5			