



QUAKING BOG and HUNGRY PLANTS

Gerald E. Eddy Discovery Center
17030 Bush Road
Chelsea, MI 48118
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www.michigan.gov/dnr

LOCATION	SEASON	AGE RANGE	DURATION	# OF VISITORS
DC	ALL	4 th grade-adult	90 min.-2 hrs.	30 maximum

DESCRIPTION:

Students will view a slide show highlighting Waterloo's natural features and Michigan's geologic past and present. Hiking past a kettle-hole lake, through hardwood swamp and over the floating bog will help students make comparisons of the soil, plants, and wildlife found in Waterloo. Classes examine the bog's distinct characteristics including the nutrient-poor system, acidic soil, and slow rate of decomposition. Observations of bog plant adaptations, including the carnivorous pitcher plant and sundews help explain the harsh environment.

GOALS:

Students recognize the need for each unique wetland community.
Students become aware of a number of threats to our Michigan wetlands, and the need for preservation.

OBJECTIVES:

- Ability to distinguish among four types of wetlands: bog, emergent marsh, scrub shrub and hardwood swamp.
- Understand the importance of the mature forest as one of the most significant habitats within Waterloo Recreation Area.
- Be able to identify three species of flora and three species of fauna that depend on mature forest.
- Recognize the significance of certain tree species in the biological communities where they are encountered.
- Identify two of the greatest threats to habitat in Michigan.
- Ability to define the terms native and non-native in reference to wildlife and plant life.
- Recognize bog plants and learn about their strategies for obtaining nutrients in this nutrient-poor environment.
- Ability to describe the characteristics of the bog community.
- Identify three plant species and two animal species that can be found in the bog community.

The following grade level content expectations will be emphasized as determined by the grade level attending: L.OL.04.15-.16; L.EC.04.11; L.EC.04.21, S.RS.04.18; S.RS.05.17; L.EV.05.12; S.RS.06.17; L.EC.06.11; L.EC.06.41; E.ES.07.41 and L3.P3-4; B3.4A-C; B5.1A