

# SCHOOL YARD NATURALIZATION

## SCIENCE/ENVIRONMENTAL SCIENCE

Group # that I belong to:

Names of my group members:

### Science/Environmental Science

Collect and research for the data requested below and write or type out the information on separate sheets of paper.

#### Microclimate

Find the average temperature of the area for each month of the year (use Environment Canada web site as a resource)

Find the average rainfall of the area for each month of the year (use Environment Canada web site as a resource)

Find the average wind speed of the area for each month of the year (use Environment Canada web site as a resource)

#### Soil Information

Dig up a bit of soil from the ground and compare the soil with the different sample types and determine the type of soil it is.

Use the soil pH kit to determine the pH of the soil.

Use the La Motte Soil Testing Kit to determine the Nitrogen, Phosphorous and Potassium content of the soil.

Dig a small but deep hole in the ground and insert the thermometer to determine the temperature of the soil. Do the test in the morning, midday and in the afternoon and record results, time of test and dates of test.

Use a magnifying glass and find any small insects that live in the area.

#### Previous and current vegetation and pesticide

Determine type of grass currently planted (whether it is native species, where the species came from)

Find out from school administrators or custodians the type of pesticides previously and/or currently used (before the start of the project) on the grass area. Write a 1 page report on the effects of the pesticides and the danger of the pesticide on plants, animals and human.

#### Types of plants to be used

Using all the information gathered on climate and soil, determine the possible types of plant that would grow in the soil.

Choose 5 possible plants and for each plant, write a 100-200 words information about the plant.

- ü physical description of plant
- ü types of wildlife that plant attracts and repel
- ü the plant's optimal growing temperature and climate
- ü possible cost to purchase the plant (cost of seed, cost of seedlings, cost of grown plant)