



Edgewood Elementary School
 Brooklyn Park, Minnesota

Our Fourth Grade Students conduct a year long study of our local pond: We studied a pond located two blocks from our school. The pond collects run-off from the gutters from around our neighborhood.

Date of study: October 16th 2007
 Pond Studied: Cherry Meadow Pond, Brooklyn Park Minnesota

Teacher: Ms. Oldham's Class:

Our **hypothesis** was that our pond organisms would be different from organisms found in other parts of the world.

We used hand held magnifying glasses and ProScopes to find, photograph and draw our organism.

| Pond organisms | Number of organisms |
|-----------------------|----------------------------|
| Waterboatmen | 7 |
| Backswimmers | 2 |
| Cyclops | 8 |
| Blood worm | 6 |

Teacher: Mrs. Rachor's Class

Students: 4th grade (21 students)
 Question: Are the macroinvertebrates found in pond water samples the same all over the world?

Hypothesis:
 14 students believe that the macroinvertebrates found are not going to be the same around the world.

7 students believe that the macroinvertebrates found are going to be the same around the world.

Reasons:
 The reasons why we think that the macroinvertebrates found are not going to be the same around the world are:

-Every country is different all over the world (different weather and different temperatures). Some kinds of macroinvertebrates may be able to survive in colder or hotter climates, while other macroinvertebrates cannot.

-The water condition. Some ponds that are clean and healthy may have more kinds of macroinvertebrates growing there. If a pond is polluted, fewer kinds of macroinvertebrates may be able to survive there.

The reason why we think that the macroinvertebrates found are going to be the same around the world is:

-Water is connected all over the world.

We found:

Tuesday, October 16.

| pond organisms | Number of organisms |
|-----------------|---------------------|
| backswimmer | 17 |
| giant water bug | 0 |
| water scorpion | 0 |
| mosquito larva | 0 |
| spider | 0 |
| threadworm | 6 |
| midge | 1 |
| fingernail clam | 1 |
| damselfly nymph | 1 |

We also found: 7 seeds

Mrs. Sands Class:

Team 26 hypothesized that there would be fewer pond organisms during October. We believe this because the temperatures will be colder since the days are shorter and it is autumn, so we think the pond organisms will hide in the soil and plants to keep warm. We also think some pond organisms will die in the colder water.

- Water boatmen 46
- Blood worm 6
- Thread worm 7
- Backswimmer 3
- Water mite 1
- Midge 1
- Finger nail clam 1
- Damselfly nymph 1

Seeds from plants 7
Cyclops or copepods 8

4th grade student photos taken with the ProScope:

