

# MAP OF RESEARCH CONCEPTION

## School's Educational Goals

- Children who are:
- \* Considerate
  - \* Think well and try hard
  - \* Healthy
  - \* Can lead ordered lives

## Ideal Profile of Students

- \* Learn with friends
- \* Experience natural world richly
- \* Have own perspectives and ways of thinking

## Actual Situation of Students

- \* Most are cheerful, kind and gentle
- \* Friendships are shallow, and capacity to think about things from another person's idea and perspective is inadequately developed
- \* Have considerable difficulty holding their own perspectives and ideas
- \* Some students lack interest in the natural world around them

## RESEARCH FOCUS

For students to value friendship at the same time that they develop their own perspectives and ways of thinking

- Toward enjoyable science and life environment studies -

## Ideal Profile of Students of Research Groups

### Lower Grades

- Children who:
- \* Participate happily in learning
  - \* Develop their own strategies
  - \* Learn with friends

### Middle Grades

- Children who:
- \* Eagerly use their 5 senses
  - \* Make predictions and test them
- Learn through comparing their own ideas with friends' ideas
- \* Cooperate with friends while carrying out activities

### Upper Grades

- Children who:
- \* Get pleasure from solving problems
  - \* Can find problems and make predictions
  - \* Can have their own ideas in observations and experiments
- Value learning with friends in which they recognize each others perspectives

## Research Hypotheses

- \* If students are eager to learn and take initiative in their learning, they will be able to deepen their own perspectives and ways of thinking
- \* Students will develop considerate hearts if they work together in ways that enable them to recognize one another's ideals as they engage in observations, experiments, and activities

## Methods and Measures

- (1) Strategies for Curriculum
- (2) Strategies for Learning Materials
- (3) Strategies for Teaching and Evaluation
- (4) Strategies for Learning Activities