

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