

Wilawan Yangyuen 2011: The Development of Human Reproduction Concepts and Practice Ideas in Grade 8 Students through Constructivism. Master of Education (Science Education), Major Field: Science Education, Department of Education. Thesis Advisor: Miss Apisata Juntaraprasert, Ph.D. 188 pages.

This study aimed to investigate the learning activity of Constructivism and to investigate the students' conceptions of Human reproduction and practice ideas. The study group in this research was eight grade students in one school at Chacherngsao Primary Educational Service Area Office 2, consisted of 25 male and 17 female, which had the achievement between low and average in the classroom. The instruments for data collection were Human reproduction's lesson plan based on Constructivism, Human reproduction's concepts and practices test, worksheets, teaching log, field notes and students' journals. The students' concepts and practice ideas' of Human reproduction were analyzed in each item by interpreting and categorizing in groups which were calculated to the percentage in each concept and statistical analysis using Chi-square compare of student concept in each concept to statistically significant differences in pre-test and post-test ($p < 0.05$). The learning activity of Constructivism was analyzed by content analysis from worksheets, teaching log, field notes and students' journals.

The findings of research indicated that the Constructivist learning activities helped students to have more partial understanding of human reproduction and practice ideas at 0.05 statistically significant differences. The Constructivist learning activities were composed of

1. Discussion about socio- sexual issues
2. Sharing knowledge and experiences in group work
3. Using concept maps for identifying the prior knowledge, reviewing and concluding the lessons
4. Providing the various instructional media: video, pictures and real objects for students
5. Students participated in social development activities for community
6. Invitation the expert to be a speaker.

Student's signature

Thesis Advisor's signature