Itsaraporn Chumat 2014: Development of Learning Resource Database in Science Discipline for Lower Secondary Level Focusing on Strand 1 to 4 of Basic Education Core Curriculum B.E. 2551. Doctor of Philosophy (Curriculum and Instruction), Major Field: Curriculum and Instruction, Department of Education. Thesis Advisor: Associate Professor Maturos Chongchaikit, Doctorat de 3eme Cycle. 214 pages.

The objectives of this research were to 1) develop the Science Learning Resource Database for Lower Secondary Focusing on strands 1-4 of the Basic Education Core Curriculum B.E.2551; and to 2) study the usage methods and patterns of the Science Learning Resource Database for Lower Secondary, Focusing on strands 1 – 4 of the Basic Education Core Curriculum B.E.2551 in the future. The Population used in this research were the 40 lower secondary science teachers from 40 schools of Nakhon Phanom Primary Educational Service Office Area 1. The research instruments were the Learning Resource Database on Science in the form of weblog and the questionnaires on the future usage methods and patterns of the Learning Resource Database. The data were analyzed through the frequency distribution, the percentage and the descriptive narration.

The research findings were as follows. 1) The printed content document of the Science Learning Resource Database for Lower Secondary Focusing on strands 1 – 4 of the Basic Education Core Curriculum B.E.2551 consisting of 3 resources on learning outcomes examples: 340 items, learning activities examples: 154 items and evaluation criteria examples: 339 items, all according to the indicators of the Basic Education Core Curriculum B.E.2551 ; 2) The Science Learning Resource Database in the form of weblog at the URL: http://sceincemattayom.blogspot.com 3) the future usage methods and patterns of the Science Learning Resource Database that were agreed by the population at 100 percents, consisted of 3 usage patterns: before class - during the class – after the class. The amounts of the usage methods for each main menus, consecutively presented on the 3 patterns were as follows: the main menus of learning resources strands 1 – 4: 13, 6 and 6 methods ; the extra menus on related agencies in the country and abroad: 6 methods in all patterns and the extra menus on Thai and foreign learning resources : 7, 6 and methods.

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