

## TRAINING AND ASSISTANCE IN THE DEVELOPMENT OF LEARNING OUTCOME ASSESSMENT MATERIALS HIGH- ORDER THINKING SKILLS FOR HIGH SCHOOL MATHEMATICS TEACHERS IN SOUTH TANGERANG

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**Abstract:** *High Order Thinking Skill (HOTS) is students' ability to process knowledge and ideas in a certain way to give them new knowledge and implications. The general perception regarding HOTS questions is that they are high-level questions. Most teachers adopt olympic questions as HOTS questions due to a misperception that HOTS questions are difficult, even though HOTS questions can be made in various difficulty levels: low, medium, and high. In addition, the substantive aspect of Mathematics, especially the application of Mathematics in life, is also one of the problems in developing HOTS questions. The method of implementing community service (PkM) is by training and assisting in preparing SMA-level Mathematics HOTS questions. The results of this PkM activity are: (1) Increased knowledge and understanding of teachers in the technique of developing HOTS questions which can be seen in an increase in the average pre-test and post-test results by 9%, (2) Improved mathematical skills in the use of concepts and applied Mathematics on HOTS questions. This can be seen from the questions made by the teachers in this PkM activity, and (3) the participants' satisfaction with this PkM activity is shown by the questionnaire results with a satisfaction range of 85.71% - 96.43%.*

**Keyword:** *Development; High school teacher; HOTS; Mathematics; Thinking Skills.*

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### INTRODUCTION

Mathematics is a subject given to all students starting from elementary school to equip students with the ability to think logically, analytically, systematically, critically, and creatively, as well as work together<sup>1</sup>. In other words, Mathematics is the foundation for all fields of science. Therefore, Mathematics is used as a subject tested in the Program for International Student Assessment (PISA).

<sup>1</sup> Menteri Pendidikan Nasional RI, Peraturan Menteri Pendidikan Nasional Republik Indonesia Nomor 22 Tahun 2006 Tentang Standar Isi Untuk Satuan Pendidikan Dasar Dan Menengah, 2006.

# Application Of High School Mathematics Teachers Edition

**Jason Lau**



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Applications of High School Mathematics Holt McDougal, Martin P. Cohen, Houghton Mifflin Company, 1992-01

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**Research in Education** ,1971     Applications of High School Mathematics ,1992     *The Mathematics Teacher* ,1921     **Invitation to Mathematics: Teacher's edition** L. Carey Bolster, 1985     **Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant** ,     An Examination of High School Mathematics Teachers' Understanding and Application of Mathematics Teaching Practices Through Professional Development Opportunities in Central Virginia Jason Lau, 2019     **Announcement of Correspondence Courses in the Extension Teaching Bureau** University of Texas. Division of Extension, 1927

*International Index to Periodicals* ,1924     *Year Book* National Council of Teachers of Mathematics, 1926     *Sierra Educational News* California Teachers Association, 1920     "Code of Massachusetts regulations, 2009" ,2009 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     Coöperative Supervision in Grades Seven to Twelve John Addison Clement, James Homer Clement, 1930

*Philippine Public Schools* ,1929     Education pamphlets ,1930     **The American School** ,1920     *The Principles of Psychology* William James ,1918     **Report on the Classification of Positions and Schedules of Compensation. City of Minneapolis. Including Standard Classification and Specifications of Duties, Qualifications, Lines of Promotion, and Suggested Salaries and the Reclassification of Existing Offices and Positions, with Other Constructive Recommendations ... . June, 1922** J.L. Jacobs & Company, 1922

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