A S ELKHADER* (a.elkhader@northern.edu), Dept. of Sciences and Mathematics, Northern State University, 1200 South Jay Street, Aberdeen, SD 57401. Activities on using history of mathematics in a standard college algebra course.

This work will focus on how incorporating the history of mathematics into solving some standard college algebra problems has led to a deeper understanding and appreciation of mathematics as expressed by students and course outcomes. In particular, students are asked to solve standard problems without any use of symbolic notation. With an anticipated complexity and difficulty, an introduction of symbolic notation would lead to efficiency and elegance in expressing solutions. Students then are asked to use Internet and library searches to investigate the origin and historical evolvement and development of each notation used. Special attention is given to the historical development of mathematical notations used in solving exponential and logarithmic problems, complex numbers, matrices and determinants, and notations used in solving probability and statistics problems. Additionally, attention is paid to the historical use of technology in solving such problems. Course assessment is based on writing components, group work and classroom presentation (Received August 11, 2015)