

THE EFFECTIVENESS OF A MULTIMEDIA PROGRAM BASED ON THE SYSTEMIZED APPROACH TO "DAVIS MODEL " IN DEVELOPING THE VISUAL THINKING SKILLS AND COGNITIVE ACHIEVEMENT OF STUDENTS WITH HEARING IMPAIRMENT

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ABSTRACT *This research purposed to recognize the effectiveness of the employment of the systemic access on producing educational multimedia software according to the steps of the model of "Davis" of the systemic learning in the development of the skills of visual thinking and academic acquisition of the hearing-impaired students at the preparatory school. And the study sample composed of 22 students from the seventh grade within the program of the hearing-impaired students at the school of Osman Ibn Affan in Medina, KSA. And the researcher used the semi-experimental design for one group, pre-test and Post-test to measure the effectiveness of the independent variable in the attendant variables, and the instruments of the research were prepared by the researcher, represented in the experimental treatment tool (educational multimedia software), the visual thinking test and the achievement test. After the experiment, the data was analyzed and the results showed a statistically significant difference at the level 0.01 between the average of the degrees of the students with hearing impaired in the pre and after applications for each of the visual thinking skills test generally, and also for each of sub-skill separately, and for the cognitive acquisition in favor of after application, and consequently, the researcher recommended the using of the systemic access and the using of its models specially the model of "Davis" in producing the interactive educational multimedia software in various courses for the hearing-impaired students to Improve their learning outcomes.*

Keywords: Systemized Approach, "Davis" Model, Educational Multimedia Software, Visual Thinking, Hearing Impairment.