

THE EXTENT OF EMBEDDING PROCESSES OF SCIENCE IN THE EXPERIMENTS' BOOK OF THE DEVELOPED SCIENCE COURSES FOR THE INTERMEDIATE STAGE IN THE KINGDOM OF SAUDI ARABIA

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ABSTRACT_ This study aimed to provide a list of basic and integrated scientific processes which should be embedded in the workbook for the developed science course in the intermediate grade in the Kingdom of Saudi Arabia. It also aimed to decide to which extent they are embedded in the science workbooks for the intermediate stage. The sample of the study consisted of all experiments in the science workbooks for the intermediate stage which are taught in the year 1435/1436. The researcher used the descriptive analytical approach and designed a content analysis card for this purpose. The results showed similarity in the percentage of embedding basic scientific processes in the workbooks where observation, communication and deduction processes gained the highest percentage respectively, whereas the percentage of the use of numbers processes, prediction and the use of place and time relations were very low. For the integrated scientific processes, the highest percentage was the process of experimentation with 63.25% followed by data explanation with (28.33%) while the other processes registered very low percentages which were 6.21% for the procedural definition followed by assuming assumptions with (2%) while variable fixing registered the lowest with only (0.18%). The researcher recommends embedding scientific experiments containing the processes of using numbers, prediction, using place and time relations, procedural definition, assuming assumptions and fixing variables in a wider range in the content of the workbooks of the developed science courses for the intermediate stage.

KEYWORDS: scientific processes, Science books, Intermediate stage.