

## SUMMARY OF THE STUDY

This research aims at studying the effectiveness of a suggested strategy for using learning resources on the academic achievement and the practical skills for students of animal production field in agricultural secondary stage .

The importance of learning resources lies in ;

- 1- Making the time care of the educational experience introduced to studs to more near .
- 2- Making the place core of the desired experience inside and outside the classroom more near .
- 3- Motivating the students which in turn has a positive effect on teaching process and learning out come .
- 4- Training the objectives of teaching agricultural sciences like ; cognitive objectives (academic achievement ) and psycotomoter objectives (practical skills) .
- 5- going out of the classroom to the vast environmental field outside the classroom ; form , factory , museum and fair.

This study is an attempted to answer the following main question; what is the effect of suggested strategy for using learning resources on the academic achievement and practical skills for students of animal production field in the secondary agricultural stage.

Fromthio question , some sub questions have been derived ;

- 1- What are the required learning resources for teaching chemistry of animal feeding for 3 rd pear secondary agriculture students (animal production department ) ? .
- 2- How can suggested strategy be designed for using the learning resource in teaching chemistry of animal feeding for 3hd year secondary agricultural students (animal production department)?
- 3- What is the effectiveness of the suggested strategy in teaching chemistry of animal feeding on the academic achievement for 3rd fear secondary agricultural students (animal production department)?
- 4- What is the effectiveness of the suggested strategy in teaching chemistry of animal feeding on the practical skills for 3rd year secondary agricultural students (animal production department)?

### **The research Hypotheses :**

To answer the research questions some hypotheses were suggested.

- 1- There are no statistical significant differences between the mean scores of the control groups students and that of the experimental group students on the a achievement test in the pre experimentation .
- 2- There are no statistical significant differences between the mean scores of the control group students and that of the experimental group students on the practical skills in the pre experimentation .
- 3- There are statistical significant differences between the mean scores of the control group students and that of the experimental group students on the achievement test in the pest experimentation in fours of the experimental group .
- 4- There are statistical significant differences between the mean scores of the control group students and that of the experimental group students on the practical skills in the post experimentation in four of the experimental group .

### **Limitations of the research :**

- 1- The secondary agricultural schools of three years in Galiubia .
- 2- A jury of some teachers , senior teachers , supervisors and general supervisors in secondary agriculture al education in Galicebyia .
- 3- A group of 3rd years secondary agricultural students (animal feeding department) in Mushtohor .
- 4- The 3rd unit of the chemistry of animal feeding syllabus , it is entitled "bases of making animals and hens' food".
- 5- Some learning resources.
- 6- measuring the academic achievement in three web; (memorizing - understanding - applying) .
- 7- Measuring the required practical skills.

### **The research procedures :**

To answer the first question , questionnaire was prepared and administered on a jury of specials to in secondary agricultural school-bearing resources were identified after reaching to results.

To answer the second question , the unit content was analyzed to identifying the basic concepts and skills included in it.

To answer the third question , an achievement test was prepared , it conceived of (51) items ; 21 item measures memorizing , 16 item for understanding and 15 item for applying level . The test was applied on a

It used ministered on a group of students after using teacher's manual in teaching .

***The research tools :***

- 1- Preparing a questionnaire ; for identifying the different agricultural earning resources . It consisted of 151 item cheat covered the unit's topics . Each item ranged from .
- 2- Preparing teacher's manual : This researcher had prepared a teacher's manual to be used by the teacher in teaching the units topics which had 12 topic . The manual had the suggested strategy in teaching the unit's lopice by using the available learning resources in the agricultural secondary school and the resources chichare not available . Each lenon ended with activities needed from students , summary and evaluative questions .
- 3- Preparing the achievement test : This researcher had prepared an achievement test for the units topics, it consisted of 51 items which were distributed to the unit's topics according to the importance of each topic.
- 4- Preparing the notice card ; This researcher had prepared a notice card for measuring the student's practical skills after teaching the unit's topics by using the learning resources . Six main skills had been chosen . Each skill had been analyzed to subs kills that can be measured through student's performance.

**The Research sample :**

The research sample inducted 72 student who represented two classes, in Mushtoher agricultural school (Animal production dep.) 3.6 class was used as a experimental group and 3/10 class was represented as a control group.

***The statistical methods :***

The following methods were used by this researcher to be sure of the validity of the hypotheses .

- 1- The mean .
- 2- The standard deviation .
- 3- Analysis of variance .
- 4- (T) test .

***The research results :***

This study revealed the following results .

- 1- The learning resources in secondary agricultural school are not sufficient and traditional .

- 2- A high percent of the learning resources are not available in the secondary agricultural school .
- 3- There are no statistical significant differences between the mean scores of the experimental group and that of the control group in the academic achievement before the experiment, thus the first hypothesis was confirmed.
- 4- There are no statistical significant differences between the mean scores of the experimental group and that of the control group in the practical skills in the pre experiment , thus the second hypothesis was confirmed
- 5- There are statistical significant differences on the level of (0.01) between the mean scores of the control group (which didn't use learning resources ) and the mean scores of the experimental group (which used learning resources) in academic achievement in favor of the experimental group , thus the third hypothesis was confirmed .
- 6- There are statistical significant differences on the level of (0.01) between the mean scores of the control group and that of the experimental group in practical skills in flower of the experimental group , chess the fourth hypothesis was confirmed .