

2005 238-221: - ()

(2004/2003)
2004/2003
: (270)
(12)
(26)
(%18) (23)
(.0.88)

The Role of Remedial Teaching on Developing the Skill in using the Microscope for Students in Biology Department at Al-Quds

Abstract: The purpose of this study was to investigate the role of remedial teaching on developing the skill in using the microscope for students in Biology Department at Al-Quds University of the academic year 2003/2004. The study population consisted of all students who are regular in general biology course (n=270), The sample comprises two Biology lab sections selected randomly from twelve sections. The two sections were divided into two groups; one as experimental group and the second as control group. The ratio of the sample was 18%. The researcher used a test of skill in using the microscope with reliability (0.88). For the purpose of the study, the researcher used different statistical methods to analyze the data, such as the mean, standard deviation, t-test, and two - way analysis of variance at significant level ($\alpha \leq 0.05$). The results indicated that the remedial teaching developed the skill in using microscope was statistically significant.

...

:1994)

(155

)

.(5 :1994

()

.(161 :1996)

()

:1985)

.(95

(Tyler)

.(100 :1985)

(140: 1992)

.(35 :2000)

(56 :2002)

:

:

:

:

()

.()

:

...

:

:

1

2

3

1

2

()

3

$(\alpha \leq 0.05)$

()

:

:

:

:

1

2

2004/2003

3

:(1)

()

1981

:

:

...

:

:

(1992)

(1993)

()

()

(1994)

(8)

(%60)

(%80)

/92 ()

.1993

(1994)

1993/92

(Okebukola & Ogunniy,1984)

()

(1025)

...

(Beasley,1985)

()

24

(400)

.()

(Al-Busaidi ,1992)

(Batzer,1997)

766

(Loretal et al,1997)

)

(

(Shults, 2000)

1998

%36

(Henderson et al, 2000)

(28)

(489)

(Tasmania)

(Jacob,2001)

.1996

...

2004/2003

(270)

(12)

(12)

(14)

(26)

(12)

(11)

(23)

(1)

%18

(1)

	()	()	
25	11	14	
24	12	12	
49	23	26	

(Tyler)

(Tyler,1942:493)

(421 : 2000)

.(1)

)

(

(14)

(Test-retest)

(Pearson)

(0.88)

(Pearson)

.(0.91)

(

)

:

()

:

...

()

(2) .()

(2)

()

()

	()				
0.56	0.58	9.7	59.2	26	
		6.9	60.6	23	

(0.56)

(P)

(0.58)

()

(2)

($\alpha \leq 0.05$)

()

2004/2003

" "

()

()

:

:

:

(t-test) ()

(Pearson)

(Two way Anova)

:

()

(3)

()

()

(3)

()

	()				
*0.01	2.7	7.4	71.6	26	
		6.8	66.0	23	

*

...

(0.01) (P) (2.7) () (3)
($\alpha \leq 0.05$)

)
(
()

(Jacob,2001)

(Batzer,1997) (Shults,2000)

:

() (4)
(4)
()

	()				
0.85	0.18	5.8	69.2	25	
		9.0	68.7	24	

(0.85) (P) (0.18) () (4)
($\alpha \leq 0.05$)
(1984)

(1989)

(1994)

:

(5)

P	()				
*0.014	6.58	359.6	1	359.6	
0.823	0.05	2.77	1	2.77	
0.89	0.02	1.07	1	1.07	
		54.6	45	2458.2	

*

()

(5)

(P=0.89)

(0.02)

()

(1994)

...

:

1

2

3

4

:(1992)

:(1989)

:(1985)

:(1984)

.100 (4)

:(1996)

:(1994)

: (1993)

.256-236 (2)

:(2000)

:(1992)

:(1994)

.(2) (14)

:(2002)

- Al – Busaidi, R. S (1992): Assessment of Science practical skills of Oman 12th grade students, **International Journal of Science Education**, (3),1992, P.319-330.
- Batzer, A., (1997): **The effect of Remedial of education programs on academic achievement** and persistence at the two-year community college. (ERIC Doc. ED 433867).
- Beasley, W.(1985): Improving student laboratory performance: How much practice makes perfect?, **Science Education**, 69 (4), P.567-576.
- Henderson, D., Fisher, D., Fraser, B.(2000) Interpersonal behavior, Laboratory learning environment, and student outcomes in senior biology Glasses, **Journal of Research in Science Teaching**, 37(1),P.26-43.
- Jacob, A., Iefgren, I. (2001): **Remedial of education and student achievement**. (ERIC Doc. ED 465007).
- Loretal, L. J., Henry, W. H., Precharn, D.(1997): Effect of laboratory manual design in cooperation visual information processing on student learning and attitudes. **Journal of Research in Science Teaching**, 34 (9), P.891-904.
- Okebukola, P. A. & Ogunniy , M . b. (1984): Cooperative, competitive and individualistic Science laboratory interaction patterns effects on students achievement and acquisition of practical skills, **Journal of Research in Science Teaching**, 21(9), P.875-884.
- Shults, Ch. (2000): **Remedial education: Practices and policies in community colleges**. . (ERIC Doc. ED 448811).
- Tyler, Ralph W. (1942): A test of skill in using a microscope, **Educational Research Bulletin**, vol (9). p. 493-496.

...

(1)

1	2	3	4	5		
						1
						2
						3
						4
						5
						6
					45	7
						8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22