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Abstract

This study aimed to investigate the effectiveness of a computerized unit in geometry for the development of geometric thinking and educational achievement at the fourth grade female students.

The researcher followed the semi-experimental approach, The study sample consisted of two experimental and control groups, where the experimental group taught a computerized unit, it consisting of (30) female students, while the control group was taught in traditional way, it consisting of (30) female students . where geometric thinking test according to the first four levels at Van Hiele , addition to achievement test were applied.

The study researched to the following results: there were statistically significant differences between the experimental and control groups in the two tests (achievement tests and geometric thinking) for the experimental group.

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(18 :1997)"

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(1992) .(251 :2004).

(Hatfield et al.,2001)" "

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(Cuco & Mark,1998)

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(2007) (Willson, 1990) " " (1999) (1996)
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(Rodny,2002:11)

(Guckel & Ziemer ,2002: 58)

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(Reeves,2002: 14)

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:(Almeqdadi, 2005)

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(Martindel, Pearson, Curda & Pilcher, 2005)

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(24) (Florida Comprehensive Assessment Test)
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:(Yu-Ku, 2004)

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:(Wang, Cheng, Wang & Hung, 2002)

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%75	%35	34	%67	%50	20	%67	%50	6
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%75	%43	38	%42	%60	24	%50	%50	10
%67	%45	39	%75	%50	25	%67	%38	11
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0.00	0.87	31	0.00	0.70	18	0.00	0.81	5
0.00	0.92	32	0.00	0.63	19	0.00	0.63	6
0.00	0.85	33	0.00	0.87	20	0.00	0.65	7
0.00	0.70	34	0.00	0.49	21	0.00	0.87	8
0.00	0.84	35	0.00	0.63	22	0.00	0.52	9
0.00	0.63	36	0.00	0.52	23	0.00	0.84	10
0.00	0.92	37	0.00	0.78	24	0.00	0.77	11
0.00	0.89	38	0.00	0.85	25	0.00	0.52	12
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Analyses -1

Design -2

Development -3

Implementation -4

Evaluation -5

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			3.31	4.13	30		

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ثالثاً / مراجع على الشبكة العالمية:

http://www.e-learningguru.com/articles/art2_1.htm : Kevin