

ORGANIZATIONAL-PEDAGOGIC TECHNOLOGY OF FORMATION OF MOTOR FUNCTIONING CULTURE AS MEAN OF PHYSICAL FITNESS IMPROVEMENT OF 5 FORM PUPILS

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Abstract. <u>*Purpose:*</u> to analyze influence of organizational-pedagogic technology of formation of motor functioning's culture of five form pupils in process of physical education; to test experimentally methodic of formation of motor functioning's culture by means of general gymnastic in physical education system of comprehensive schools' pupils. <u>*Material:*</u> The research was conducted in comprehensive school N 67, Kharkov. 57 pupils of five forms (5-A form – 30 pupils, 5-B – 27 pupils) participated in the research. <u>*Results:*</u> we worked out organizational-pedagogic technology of formation of motor functioning's culture "Main gymnastic at school", which positively influenced on development of physical fitness of experimental groups' pupils. <u>*Conclusions:*</u> it was established that under influence of selected exercises of main gymnastic and introduced competitiveness elements pupils' movements became more accurate, plastic, acquired higher amplitude, coordination.

Key words: pedagogic technology, main gymnastic, culture, moving, physical fitness, pupils.

Introduction

As on to day, in Ukraine there exists acute demand in creation of proper conditions for healthy life style of pupils and students that was noted in Laws of Ukraine "On education", "On physical culture and sports". In this complex process important role is assigned to school. Indeed, in this period foundation of children's physical and mental health is embedded, their demands and motives for physical exercises for maintaining of own health are formed and values of healthy life style are perceived [12-16, 19-21, 23]. However, practice shows that during learning at comprehensive educational establishments pupils' physical health significantly worsens 18, 25-29, 49]. In spite of heavy situation with pupils' health as on present time, there have been still no generalized researches, devoted to problem of pupils' health strengthening and preservation [41, 44, 46]. Solution of mentioned above problems is possible at the account of formation of pupils' certain personal physical culture [30-33, 36-38]. Its basic element is culture of motor functioning [40, 45, 47]. It is evident that effective usage of main gymnastic in system of physical education of comprehensive schools' pupils will permit to solve the problem of formation of their certain level of personal physical culture. It is known that one of physical culture's sides is culture of motor functioning. It includes technique of motor functioning and is connected with sphere of motives, demands and values of a person. However, such approach has not been developed yet. On the basis of literature [24] we found that assessment of schoolchildren's motor functioning's culture includes three groups of indicators. These indicators characterize schoolchildren's motor fitness, technique of their fulfilling of main gymnastic exercises from curriculum. Besides, these indicators point at motivation-value characteristics of schoolchildren's personalities and ensure their understanding of need in mastering of "Physical culture" program material.

Purpose, tasks of the work, material and methods

The purpose of the article is studying of influence of organizational-pedagogic technology of formation of motor functioning's culture of five form pupils in process of physical education.

The tasks of the research imply substantiation of the worked out organizational-pedagogic technology – "Main gymnastic at school".

Basing on analysis of scientific-methodic literature we can present culture of comprehensive schools' pupils' motor functioning in the form of diagram (see fig.1).

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Fig.1. Culture of motor functioning

In the course of our researches we worked out appropriate organizational-pedagogic technology of formation of motor functioning's culture of pupils. In academic year structure of mastering of "Physical culture" discipline it envisages application of the following: a) methodic of successive complication of main gymnastic means, which are used in preparatory part of lesson; b) specially worked out competition-entertaining measures, which are used at the end of every semester and are oriented on increasing of pupils' motivation for health related physical culture functioning and assessment of actual level of motor functioning's culture; c) system of measures on pupils' involvement in composing (on the base of earlier mastered material) and conducting with class-mates different complexes of physical exercises that is one of key aspects of self organization of their physical culture and sport functioning.

For assessment of five form pupils' physical fitness we used tests, based on physical exercises of main gymnastic, recommended by curriculum, for assessment of physical qualities: a) "30 meters' run" – for quickness; b)"pressing up" in lying position – for strength; c) "long jump from the spot" – for speed-power qualities; d) forward torso bending from sitting position" – for flexibility; e) "shuttle run 4x9 m (sec.)" – for dexterity and "1 minute's jumps with skipping rope" for speed power endurance.

Results of the research

For estimation of effectiveness of the worked out organizational pedagogic technology we conducted forming pedagogic experiment in the process of our researches, whose condition was to use this technology during academic year. The worked out technology was used in preparatory part of physical culture lesson (invariant component of program "Physical culture at school"). It included specially worked out complexes of: a) exercises in formation; b) different kinds of walking, run, jumps; c) complexes of general warming up exercises with o and without objects on the spot.

Results of researching of physical fitness and experiment are given in table 1. Analysis of these results witnesses that girls and boys of 5 forms have statistically not confident difference in mean results (p>0.05). For example, girls from experimental 5-A form in test "long jump from the spot" demonstrated mean result 123.5 cm. Girls from control 5-B form showed 124.3 cm. Difference between these results is statistically not confident (p>0.05). Boys of 5-A and 5-B forms showed the following mean results: accordingly, 144.5 cm and 143.3 cm. (p>0.05). Analogous picture is observed with comparing mean results of other tests: "pressing up in lying position", "30 meters' run (sec.)", "shuttle run", forward torso bending in sitting position", "jumps with skipping rope" (see table 1).

Comparative analysis of changes in physical fitness of 5 forms' boys and girls (control and experimental groups) for the period of experiment is given in table 2.



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		Girls					BC				
Indicators		5-A form (n=13)	5-B form (n=15)	ta	fm	D	5-A form (n=17)	5-B form (n=12)	ta	t	n
		$\overline{X} \pm \mathbf{m}$		чр	ι _{гр}	P.	$\overline{x} \pm m$		ι _p	ιгр	Р
		(level of					(level of				
		competence)					competence)				
1	Speed-										
	power:	123.5±2.1	124.3±3.2 (sufficient)	0.21	2.06	>0.05	144 5±2 3	143.3±4.1 (sufficient)	0.25	2.10	>0.05
	long jump						(sufficient)				
	from the		(sufficient)				(sufficient)	(sufficient)			
	spot, (cm)										
2	Strength:										
	Pressing up	4 69±1 2	3.8±0.4	1 23	2.06	>0.05	6 1±0 5	6.5±0.4 (middle-	0.74	2.10	>0.05
	in lying	(middle-					(middle-				
	position,	(sufficient)	middle)	1.20	2.00	/ 0100	sufficient)	sufficient)	017 1	2.10	1 0100
	quantity of	())					~~~~~			
	times)										
3	Quickness:	6.8±0.2 (sufficient)	6.8±0.7 (sufficient) 0.01			5.7±0.1	5.9±0.2				
	30 meters'			0.01	.01 2.06	>0.05	(high)	(sufficient-	0.8	2.10	>0.05
	run (sec.)	· · · ·						high)			
4	Dexterity:	12.9±0.2	12.8±0.9				12.6±0.2	12.8±0.3			>0.05
	Shuttle run	(low-	(low-	0,12	2.06	>0.05	(sufficient-	(sufficient)	0.61	2.10	
	4x9 m (sec.)	middle)	middle)				high)	· · · ·			
5	Flexibility:										
	Forward		4.3±0.4	0.46	2.06	>0.05		3.5±0.2 (sufficient-		2.10	>0.05
	torso	4.7±0.9					3.5±0.4				
	bending in	(low)	(low)				(sufficient-		0.04		
	sitting						high)	high)			
	position,										
	(cm)										
6	Speed										
	endurance:		40.5±3.7		2.06	>0.05	40.1±1.3 (low)	40.5±4.2 (low)		2.10	>0.05
	Jumps with	40.0±2.3									
	skipping	(low)	(low)	0.11					0.06		
	rope (q-ty of		-								
	jumps for 1										
	minute)										

Physical fitness of five forms' pupils before experiment (p=0.05)

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Table 2

Physical	fitness o	f five	forms'	nunils	after	exneriment ((n=0.05)
1 nysicui	niness 0	1 JUNC	joi ms	pupus	ujici	$c_{\lambda}p_{C}$ initial	p 0.05)

Indicators		Girls					Boys				
		5-A form (n=13)	5-B form (n=15)	t _p	t _{rp}	р	5-A form (n=17)	5-B form (n=12)	tp	t _{rp}	р
		$\overline{x} \pm \mathbf{m}$					$\overline{x} \pm m$				
	Speed-power:										
1	long jump from the spot,	147.7 ±2.4	135.9±3.6	2.7	2.06	< 0.05	175.3±3.1	161.3±4.8	2.5	2.10	< 0.05
	(cm)										
	Strength:										
	Pressing up in										
2	lying position,	9.1 ± 0.5	7.3 ± 0.7	2.1	2.06	< 0.05	10.4±0.6	8.8±0.4	2.2	2.10	< 0.05
	quantity of										
	times)										
3	Quickness:										
	30 meters' run	5.9 ± 0.2	6.1±0.6	0.3	2.06	>0.05	5.1±0	5.4±0.2	1.5	2.10	>0.05
	(sec.)										
4	Dexterity:				• • •						
	Shuttle run	11.6 ± 0.2	12.5±0.9	1.0	2.06	>0.05	11.2±0.3	12.0±0.2	2.2	2.10	<0.05
	4x9 m (sec.)										
5	Flexibility:										
	Forward torso	0.1 + 0.0	50104		2.04	0.05	50.04	12:02	2.0	2.10	0.05
	bending in	8.1 ± 0.8	5.9 ± 0.4	2.5	2.06	<0.05	5.9±0.4	4.2±0.2	3.8	2.10	<0.05
	sitting										
	position, (cm)										
6	Speed										
	endurance:										
	Jumps with	76.4±2.4	48.8 ± 3.3	6.8	2.06	< 0.05	68.2±1.9	48.8±3.7	4.7	2.10	< 0.05
	skipping rope										
	(q-ty of jumps										
	for 1 minute)										

Effective influence of organizational-pedagogic technology of formation of motor functioning' culture "Main gymnastic at school" on experimental 5-A form pupils' physical fitness in comparison with control 5-B form can be explained by the following:

• In experimental form quickness improved owing to introduction of different relays with ball, gymnastic stick, combinations of jumps and run, team relays for better result in physical culture lessons

• Level of strength in experimental form improved owing to practicing of static positions, increasing of exercises' repetitions, temp, rhythm of movements; execution of exercises in series, with the help of partner, application of current method of exercises' fulfillment, overcoming of obstacle course.

• Dexterity in experimental form became higher owing to application of exercises with skipping rope, different jumps; relays with skipping rope, competition and game methods of training to exercises from main gymnastic.

• Flexibility in experimental form improved at the account of systemic stretching exercises' fulfillment: active exercises (slow, elastic, waving movements); passive exercises (with using of own weight, with self-captures, with the



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help of partner) and combined exercises (slow, elastic and waving movements in combination with keeping posture in extreme points of amplitude).

• Speed endurance in experimental form became better owing to usage of complexes of exercises with skipping rope, different jumps, relays with skipping rope, competition and game methods of exercises' fulfillment.

Discussion

Results of the conducted research **prove** described by V. Galuziak (2003), I. Prokopenko, V Yevdokimov (2008), V. Sutula (2012) approaches to determination of pedagogic technologies'essence, which are reproducible system of pedagogic techniques and methodic. Pedagogic techniques and methodic are combined by single algorithm of their application in educational process, which guarantees achievement of purpose.

Results of the conducted research **supplements the data** of G. Natalov (1998), L. Lubysheva (2004), R. Abzalov (2013), about essence of culture of pupils' motor functioning at the account of its marking out in structure of activity's and value-motivation component.

As a result of our researches we proved effectiveness of the worked out pedagogic technology of formation of pupils' motor functioning's culture, which stipulates its application in academic year structure of discipline "Physical culture" by methodic of successive complicating of main gymnastic means. In comparison with analogous researches (G. Globa, 2007; O. Kolonkova, O. Litovchenko, 2009; L. Deminskaya, 2010; K.T. Ferguson, 2014; R.C. Cassells, 2013) it is more efficient pedagogic tool, which can be used for formation of motor functioning's culture of 5 forms' pupils.

Conclusions:

Results of the conducted research witness that the worked out organizational pedagogic technology of formation of motor functioning's culture facilitated perfection of experimental form pupils' physical fitness. It is connected with general-developing influence of selected exercises and introduced competition's elements as well as with the fact that schoolchildren's movements became more accurate, owing to increasing of inter-muscular coordination. It facilitated fulfillment of exercises at technically higher level.

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Conflict of interest

The author declares that there is no conflict of interest.

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