

Moutalimova A.M. The causal attributions of achievements and success of senior schoolchildren learning

The author of the article reviews the results of the study of the influence of causal attributions of achievements upon senior schoolchildren's learning success. She shows the negative influence of the unfavourable attribution type, as well as the implicit theory of the intellect predetermination upon the learning. The necessity of further research of this topic is proven.

Key words: causal attributions of achievements, favourable attribution of success and failure, unfavourable attribution of success and failure, implicit theory of the intellect increase, implicit theory of the intellect predetermination, learning success.

One of the central problems of the psychological and pedagogical researches is the studying of the different factors in order to increase the success in the learning activity of the schoolchildren, which is influenced by a great number of the facts as social, psychological, pedagogical and etc. The biggest interest is attracted to the students' individual and psychological particularities, determining their learning possibilities as yielnas the success of the educational activity.

The received results are contradictory and do not let to make unampiguous conclusions about the impact of these or those factors upon educational activity results. One of the criteria of the success (efficiency) is the educational activity, which reflects its resultative characteristic – the volume and quality of the knowled e assimilated, developed skills, expressed into the merit point system [2]. The reservences of the problem of the success of the learning more often connect it with the cognitive characteristics of the pupils, due to their intellect, abilities, training standard cognitive strategies and etc.

However in psychological and socio-psychological studies (T.O. Gordeeva, 2002; N.A. Batourin, 1999; V.A. Yanchouk, 2001; D.A. Tsiring, 2001; G.M. Andreeva, 1979; V.P. Trousov, 1981; T.G. Stephanenko, 1999) we can find large data, characterizing interrelations of the activity efficiency and partic latitics of causal attributions of their subjects. At the same time only single studies are dedicated to the influence of the causal attributions upon the achievement metivation and learning success (T.O. Gordeeva, 2006; M.M. Dalgatov, 2001, 2006; A.M. Wutatimova, 2006; N.V. Tagaeva, 2005; A.A. Shepeleva, 2008).In the experimental restarches (Wilson, Linville, 1985) it was revealed that, pupils' attribution of the bad marks to changeable, instable reasons leads to the positive expectations about future marks and increases their academic results. Besides in the researches of B. Licht and C. Dweckt was discovered that, when they face troubles (in the situation of failure) children with the pessimistic and optimistic styles of the explanation of their achievement, behave themselves in a different way. The first ones have problems with solving the problems, while the optimists stay at the same level (Dweck, Licht, 1990) [1].

It was established that their achievements are attributed to such characteristics of the causal attributions like stability (constancy), internal localization and unaccountability. Moreover, in the studies of Dweck and Leggett it was found that the explanation of ISNN 1812-1853 • RUSSIAN PSYCHOLOGICAL JOURNAL • 2009 VOL. 6 # 4

the failures by the absence of the abilities doesn't have any negative impact upon the activity, if they are interpreted by the subject at the level of the intuition as the quality which can be changed, developed and formed (Dweck, 1991; Dweck, Leggett, 1988). A. Bandura's studies also showed that, the representations of the subjects of the educational activity, connected to the confidence in their abilities and their own efficiency, have positive influence upon their success (Bandura, 1995; Cervone, 1993; Zimmerman, 1995). The results of the studies, carried out in the frame of the attributive theories, testimony that the explanation style while facing the difficulties, and casual attribution of the success and failure influence the motivation of the behavior, particularly, activity or passivity, persistence or helplessness, and schoolchildren's success in whole, too (Abramson, Seligman, Teasdale, 1978; Peterson, Seligman, 1984). It means that, between causal attributions of the subjects and results of their activity and success of their activity, and also emotional and motivational indices there are some certain interelation (B. Viner, M. Seligman, K. Dweck, A.B. Orlov, M.M. Dalgatov and others). However the correlations are still unknown, we aren't sure about the fact that the causal attributions influence the learning success and what is the nature of this influence.

Taking into consideration all the above said, we started the research to find a the influence of the causal attributions of the achievements upon learning uccess of the senior schoolchildren, where 225 schoolchildren of the secondar should be added by the secondar should be added by the secondar should be added by the secondar school by the secondar estan took part. The indices of the learning succees were studie with the help of the expert teachers' assessement, pupils' learning success analyzising the documents (class registers, tables and others). While using causal attributions we polied: modified versions of the methods to measure types of the attribution Buyental-Ueylen-Haneker (modification of M.M. Dalgatov, I.I. Ilyassov); Dembo-Reubinshtein-Prikhozhan (modification of M.M. Dalgatov, I.I. Ilyassov); methods A. Muller and C. Dwek to identify the implicit representations about the intellect The results, received according to the methods of Bugental-Ueylen-Haneker, showed, that casual attributions have an influence upon the learning success at the level or statistical significance (Table 1). Notably, the significance of the influence of the tay burable, as well as the unfavorable attribution turned to be lower separately then their cumulative influence. This tendency takes place in the situation of the access as well as in the situation of the failure.

Table 1

The main results of ANOVA of the influence of the attribution to success and failure point he level of the success of the learning activity of the senior schoolchildren

Dependent variable	Independent variable		Mean	
Assessement of aca-	Attribution of success	30,725	,000	
demic results	Attribution of failure	33,872	,000,	
	Attribution of success * attribution of failure	4,725	,031	
Tericiner's assessment	Attribution of success	26,679	,000,	
	attribution of failure	31,176	,000,	
	Attribution of success * attribution of failure	4,278	,040	

The analysis of the mean value of the success level showed, that the level of the success of the respondents with favorable attribution to success and failure higher in comparison with the respondents with the unfavorable attribution.

ANOVA of the results of each factor influence upon the level of the success of the learning activity testifies that there are significant differences in the average indices of the success and expert pupils' marks depending on the type of the attribution (Table 2).

Table 2

Independent	Dependent variable	F	Mean	F	Mean	
variable	-	Situation	of success	Situation	of failure	
Attribution to	Assessement of academic results	8,824	,003	10,163	,002	
abilities	Teacher's assessment	6,374	,012	7,893	,005	
Attribution to	Assessement of academic results	22,602	,000,	,002	,040	
efforts	Teacher's assessment	33,024	,000	10,941	,001	
Attribution to	Assessement of academic results	13,453	,000,	1,314	,23	
luck	Teacher's assessment	14,543	,000	4,128	, 43	
Attribution to	Assessement of academic results	6,163	,014	,842	360	
difficulties	Teacher's assessment	4,949	,027	,221	679	
Attribution to	Assessement of academic results	4,378	,038	,142	,707	
help	Teacher's assessment	4,703	,031	,385	,535	
Attribution to	Assessement of academic results	1,132	,289 📢	0,854	,003	
the mood	Teacher's assessment	,324	,570	3,702	,056	

The main results of ANOVA of the influence of the types of the attribution upon senior schoolchildren's learning

The results of the descriptive statistics let us conclude that the respondents with success attribution to abilities receive higher marks (3,95) of the success level in comparison with the respondents, who have no success attribution to abilities (3,24). In the conditions of failure we can observe the opposite ultuation: the success level of the respondents with the failure attribution transities is greatly lower (3,60) then the level of the success of the respondents having profailure attribution to abilities (4,06).

The explanation of the success by the offect, and failure – by their absence positively influences senior schoolchildren's learning success. The senior schoolchildren, having no attribution to the luck in both structions of the success and failure, demonstrate the indices of success lower (3,72) then the pupils with other types of the attributions (4,05). Attribution to the difficulty of the task (in the situation of the success) and attribution to help (in the situation of success), are less favorable to learning success.

Senior schoolchildren, explaining their failures by such temporary factor, as the bad mood, are more successful at learning (4,02), then senior schoolchildren, who do not use this caulational factor (3,59). So, the results, received with the application of the modified version of the methods Bugental-Ueylen-Haneker, confirm our hypothesis about the dependence of the senior schoolchildren's learning success from the types on the causal attribution. The pupils with the favourable type of the attribution are characterized by higher level of the success, then the pupils with unfavorable type or the attribution who stand out by their lower academic results.

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The results received according to the methods of Dembo- Roubinshtein –Prikhozhan, justify and enlarge abovementioned conclusions. The studies of the influence of the self-assessment of the abilities, efforts, luck and difficulties of the studies upon senior schoolchildren's learning success showed that this correlation takes place at the level of the statistic significance (Table 3).

Table 3

Independent variable	Dependent variable	Mean	
Self-assessment of abilities	Assessement of academic results	9,768	,002
	Teacher's assessment	5,896	,016
Self-assessment of efforts	Assessement of academic results	14,114	,000
	Teacher's assessment	8,358	,004
Self-assessment of problem dif-	Assessment of academic results	5,378	,021
ficulty	Teacher's assessment	6,699	,010
Self-assessment of luck	Assessment of academic results	5,333	,0,1
	Teacher's assessment	5,096	025

The main results of ANOVA of the influence of the self-esteem upon senior schoolchildren's learning success

The analysis the mean-values of the success level of the senior schoolchildien shows, that the pupils with relatively high self-assessment of the abilities, efforts and diriculties are more successful (4,11), then the pupils with low self-esteem (3,57. The opposite tendency is typical for schoolchidren, who differ by the factor of the lube: «lucky» pupils have lower academic results (3,68) in comparison with «unlucky» ones (4,02).

In the studies of the foreign authors (B. Viner, C. Dweck Kh. Heckauzen and others) it is underlined that the most affective for the individual is an varue attribution to abilities, because it has more important negative consequences for the subject (for example the phenomenon of the learned helplessness).Starting from the importance of the attribution to abilities, we thoroughly examined this causational factor. Besides we take into consideration the data of C. Dweck and her colleances which speak about the fact that the influence of the failure attribution to abilities becomes significantly lower if the intellect (abilities)s perceived by the individual is a that geable quality of the personality. It was important to check whether the experts as a soments differ from the academic results of the senior schoolchildren, having different cleas about possibilities of changing their abilities (intellect). This difference was found at the level of the statistic significance (Table 4).

Table 4

The main results of ANOVA of the influence of the implicit theory of the intellectupon the senior schoolchildren's learning success (using the method of C. Muller and C. Dweck and questionnaire of C. Dweck)

	Independer tyariable	Dependent variable	A mean square value	F	Mean
	Implicit throny accord-	Assessment of academic	93,247	117,484	,000,
	ing to the methods of C.	results			
	Muller and C. Dweck)	Teacher's assessment	61,909	131,041	,000,
	Implicit theory of the intel-	Assessment of academic	68,368	75,523	,000,
	ectraccording to the ques- cionnaire C. Dweck)	results			
Ľ	(ichnaire C. Dweck)	Teacher's assessment	33,174	55,171	,000,

Data, received with the help of the questionnaire of C. Dweck and methodic of C. Muller – C. Dweck, in the whole they confirm our hypothesis, that the respondents who believe in the intellect growth (the abilities are changeable) have higher indices according to the level of the learning success (4,21) in comparison with those who support the theory of hereditarian viewpoint on intelligence (3,03) (the abilities aren't changeable).

Thus, the results of our research show that the senior schoolchildren with the favorable type of the attribution of success and failure differ much more by higher level of the learning activity. These results are additionally proven by other data which testify that the students with high indices of the academic success are characterized (according to implicit theory of the intellect growth) by higher self-assessment of the abilities and efforts. At the same time the received data testimony that the unfavorable type of the attribution gives negative impact upon learning activity, it is proven by low academic results of those schoolchildren who have this type of the attribution.

The further researches in the context of these problematics can be dedicated to finding out mechanisms of the influence and interrelation between schoolchildrens causal attributions and other individual and psychological particularities, this infemation will help to find other ways of increasing success of learning.

References

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