

Support of Social Relationships in Children's Groups by means of Physical Activities

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Abstract

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The contribution deals with possibilities of development of social skills with pre-school children by means of physical activities. We work on the presumption that physical activities are a rich source of emotions and situations with a strong hub, so they provide considerable scope for developing social skills in a playful and entertaining way. The contribution presents running results of the pedagogical experiment, which was aimed at testing the program of physical activities aimed at developing social skills in children. Running results suggest that well-chosen physical activities lead to development of social skills in children, particularly regarding respecting rules, regulation of emotions and the ability to cooperate.

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1. Introduction

A children's group in a kindergarten is an environment, where the child spends up to 9 hours a day. The social relationships among children can significantly influence a child's personality; negatively perceived social relationships, ostracization or putting the child in a role of a "clown of the class" presents for him/her a very unpleasant experience causing strongly negative emotions. These can manifest not only in relationships to other children in the class – enemies, but also in the quality of their life, their contentment at school, self-evaluation. The care of social environment in a class and children's groups in kindergarten seems to be an essential part of the work of educators. However, teachers hardly find space to integrate such focused activities while watching all other areas of a child's

development at the same time. Present experience and interviews with educators suggest their insufficient theoretical and practical facilities for effective development of children's social skills. It is thus purposeful to look for such ways of developing a child's personality (meaning also their social aspect), which can be naturally integrated into the common program of a class without placing high demands on teachers' preparation and time needed for carrying out these efforts.

Development of a child's social skills and support of social relationships in a peer group are anchored in the fundamental document – General Education Program for Preschool Education (Smolíková, Opravilová, Havlínová, Aleice & Krejčová, 2004). Although personality development and social relationships development weaves through practically all education areas of the General Education Program for Preschool Education (henceforth GEP PE), two out of five areas of the GEP PE are focused specifically on these issues: Child and the others, Child and society. Although the number of children does not correspond with the definition of a school class as a small social group (cf. Hrabal, 2003, Nekonečný, 2009, Výrost, Slaměník, 2008, Řezáč, 1998), other characteristics are fully in accordance with this interpretation. A school class is a group, which meets on daily basis. The children are in regular direct (unmediated) contact, there are reciprocal and many times very dynamic interactions. In the common day schedule in a kindergarten, there are many opportunities for a child's social skills development. It thus concerns children's free play and controlled activities, eating, time for resting, outdoor activities, etc. Motoric activities and games represent a specific means of children's social skills development.

2. Problem statement

The key term of our text is social skills. They can be defined as “*preconditions for adequate social interaction and communication acquired through learning*” (Gillernová, Krejčová, Horáková Hoskovcová, Šírová & Štětovská, 2012, p. 32). According to Hartl and Hartlová, social skill consists of a set of partial skills, such as the skill to establish and maintain a relationship, communicate efficiently, express feelings, hear others out, et al. These skills are acquired by the individual “*through natural participation in family and social life or purposeful psychotherapy or participation in courses aimed at personality development*” (Hartl & Hartlová, 2010, p. 108). The stated citation needs to be appended by intentional, aimed activity of an educator in the conditions of an educational process.

Along with social skills, we can come across the term *social competence*. Many authors consider the terms social skill and social competence to be synonyms. GEP PE (Smolíková, Opravilová, Havlínová, Aleice & Krejčová, 2004) doesn't differentiate between these two terms very much either. We think, however, that it is essential to make a difference between them. Because acquiring a certain skill doesn't have to mean effective use of it. We thus understand skill rather as an ability to carry out certain behavior patterns. This can, however, take place schematically according to a learnt pattern without any change whatsoever. The term *competence*, in contrast, suggests some kind of evaluative viewpoint, it expresses an ability to adequately use specific skills in contact with other people (Cook, Gresham, Kern, Barreras, Thornton & Crews, 2008). Hartl and Hartlová (2010) put the term “*competence*” in relation to capability, qualification. Pedagogy as well, this term is understood as “*a*

capability to successfully carry out an activity, complete a task” (Průcha, Walterová & Mareš, 2013, p. 129). Matsumoto emphasizes that in the case of competence, we talk about *“a set of skills necessary for performing in one or more areas of life”* (Matsumoto, 2009, p. 121)

In this text, however, we focus primarily on specific acquired processes, not on their creative use. Henceforth, we will work with the term “social skills”.

It is already in the pre-school age, when the aimed and systematic development of basic social skills of a child takes place. Some skills stem from general social rules. A greeting, a request or a thank you should be a common part of the child’s behavior before beginning elementary school. However, it is necessary to develop other areas of the child’s behavior as well. Bednářová and Šmardová (2011) include namely:

- communication (verbal and nonverbal)
- adequate reaction to new situations
- adapting to new environment
- understanding their own feelings and self-control
- understanding emotions and other people’s behavior
- objective self-perception and self-evaluation.

Social skills are an integral part of preparedness of a child for school attendance. Goleman (2006) states seven most important aspects of the skill of learning, which he considers the basis of preparedness for school. They are:

- self-confidence
- curiosity
- ability to act with purpose
- self-control
- ability to work with others
- ability to communicate
- ability to co-operate

From the above points it is clear that there is a close relationship between school preparedness and abilities of a child to function in a society. Sufficient level of social skills enables the child to focus his/her behavior on a certain goal and follow it (it supports attention). Schoolwork, however, is carried out in a group of peers. The child gets into interactions with peers and educator, has to not only communicate, but also establish, maintain and develop co-operation.

A kindergarten teacher significantly contributes to adequate level of the child’s preparedness for school not only in the area of practical skills and knowledge; it also creates internal conditions, which make the process of learning easier for the child. Therefore it is very necessary to pay enough attention to the development of social skills with pre-school aged children. As shown in Figure 1, GEP PE (Smolíková, Opravilová, Havlínová, Aleice & Krejčová, 2004) puts considerable emphasis on the social skills development. Figure 1 shows defined key competence, which children in pre-school age should achieve. It is obvious that the social area takes a significant position among them.

Although the work of an educator in pre-school education and richness and variety of educational goals are significant, we believe the environment in kindergarten and organization of children's life in it offers enough space for systematic development of social skills of children. The experience of educators and many experts show that for effective influence on the child's social area, it is not enough to do a one-time exercise or a block of activities (cf. Gillernová, Krejčová, Horáková Hoskovcová, Šírová & Štětovská, 2012, Hermochová, 2005, Hermochová & Vaňková, 2014, Mohauptová, 2009). The optimal seems to be regular short-lasting meetings. Gillernová, Krejčová, Horáková Hoskovcová, Šírová & Štětovská (2012) see the main advantage in long-term administering and in the ability to gradually apply the newly-developed skills into real social situations. The essential condition of a successful training of social skills is the feeling of psychological safety. Meeting this condition enables the participants to be sufficiently open and honest. We see great risk in this condition in a children's group. A pre-school aged child is naturally honest and is not able to think through the impact of his/her behavior. That is why some of children's utterances and reactions to others may seem harsh and may produce worries from an open, honest behavior in others. Therefore, we believe it is suitable to use the form of a game which, in its characteristics, supports spontaneity and natural behavior in children.

In our work we leaned towards motoric games. We proceed from a supposition that the concept of motoric activities offers enough possibilities for developing social skills of a child and building a healthy social group in the class. They are usually in the form of a game, and are therefore attractive and entertaining for a small child. Motivation is multiplied also by unusualness of the activities, new aids, which the child can work with and which revive common sporting-focused activities.

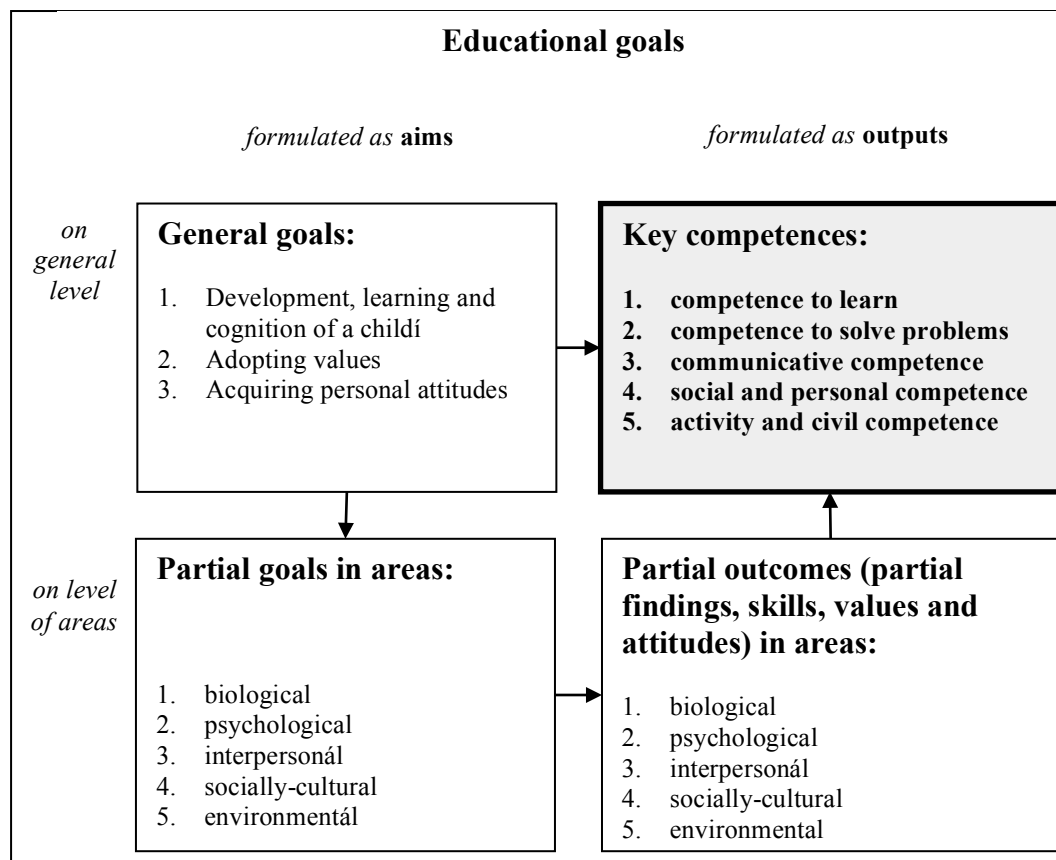


Fig. 1. Educational goals according to GEP PE (Smolíková, Opravilová, Havlínová, Aleice, & Krejčová, 2004)

Game activities and non-traditional aids (tools and equipment) endorse the spontaneity in children, which gives room for natural behavior and unforced experiencing of joy of motion, but also a variety of different emotions induced by the motoric activities. Thus the child gets a chance to get to know his/her own emotions and reactions, get oriented in them and make work with own experiencing more effective. Orientation in themselves is then the essential foundation for getting to know and understanding others. “Most motoric activities and games consist in playing together, that’s why the expected outcomes formulated in the interpersonal area can be carried out in them” (Dvořáková, 2011, p. 24). At the same time, motoric activities are considerably variable in their demands for space, time and material conditions. Therefore we believe that it is possible to integrate them very naturally and without great time or other demands into suitable parts of pedagogical work, such as sporting and outdoor activities, physical education subjects, et al.

We think that namely activities from the area of psychomotor games offer an array of themes for children’s social skills development in kindergarten. Psychomotor activity as a system of motoric activities focused on experience (Blahutková, 2003) is an optimal means to utilize motion and induced emotions for deeper self-knowledge, but also managing intense emotions, desires and various conflicts among children. Adamírová (2006) defines psychomotor activity as responsible education through motion. A child in natural conditions penetrates deeper into his experiences, tendencies and usual reactions, and learns to handle them. They also learn about reactions of others, which provides them with valuable feedback in the relationship to his/her behavior. It is also the conditions of devising the psychomotor activities, stated by Zimmer, which create suitable psychosocial environment for developing social skills. According to Zimmer (2012), a child should primarily:

- experience him/herself as an actor of the process
- know how to relate success and failure to his/her person
- create own measures of values and focus on them his/her own behavior
- take responsibility for own actions
- learn about alternatives of interruptive ways of behavior and integrate them into his/her own behavior

In order to fulfill these goals, it is possible to use various aids, tools and equipment, e.g. psychomotor parachute, paddle boat, balance platform, skipping rope, ropes, cones etc., through using of which the children give each other basic help. Through it, they learn to sense others with the means of verbal and nonverbal communication, developing empathy, own responsibility and they build a relationship of mutual trust. Aside from individual use (or use in pairs), these aids provide an array of group activities. In some cases it is financially demanding equipment, which a common kindergarten can afford only in rare cases. The system of psychomotor activities offers a rich scale of activities and games with objects commonly available (balls, skipping ropes, building sets with big bricks, benches et al.), objects of common use (PET bottles caps, yogurt cups, clothe pins), or completely without aids. In this way, these activities become easily available to all kindergartens.

3. Research questions

In the first half of 2016, we carried out a pedagogical experiment, which should disclose the answer to the main research question: How physical activities contribute to the development of social skills of preschool children?

4. Purpose of the study

The main goal of the project is to check on possibilities of using specific motoric activities from the area of psychomotor activities in the support of development of desirable social relationships in a school class and building a healthy social group in a school class group.

A partial goal is to suggest suitable motoric activities for building social relationships in children's groups and providing support to teachers in the form of a publication focused on using motoric activities to develop personality and forming of a child's social relationships.

5. Research methods

The pedagogical experiment was carried out between January – June 2016. The experimental and control group consisted of children from Zlín kindergarten 5 – 6 years of age. The advantage was that all the children attended the same kindergarten and are thus exposed to very similar external conditions. All children went through an initial and final examination, which included an individual interview, structured non-participating observation, drawing of a figure and a projective test CATO.

The interview was focused on the social aspects of the class, which the child attended, in a way perceived by the child him/herself.

The drawing of the figure is used for diagnosing mental maturity of the child. In our research though, we didn't evaluate the level of rendition of the figure, but it served as an indicative assessment of the child's relationship to him/herself. The induced identification of the child with the drawn figure later made the work with the CATO test easier.

CATO is a projective test which, by means of stimulus cards with pictures of non-specific social situations, projects the child's social relationships within their family and outside of it. We focused primarily on the child's relationships to their peers and an adult authority.

To review the level of specific social skills, we've put together a record keeping sheet of structured observation (Fig. 2). We aimed the observation on the following areas:

- Work, rules, respect for authorities
- Purposeful behavior and self-reflection
- Regulation of emotions
- Communication
- Openness to people
- Peer relationships
- Cooperation

NAME:		AGE:		DATE OF BIRTH:	
INSTITUTION:		CLASS:		DATE OF OBSERVATION:	

CATEGORY	ITEM	0	1	2	3	4	5
WORK, RULES, RESPECT FOR AUTHORITIES	Keeps things in order	0	1	2	3	4	5
	Rejects unwanted behaviour (lying, injustice, resists guidance mischievous)	0	1	2	3	4	5
	Respects authority guidelines (request, command, prohibition ...)	0	1	2	3	4	5
	Observes the rules of decent conduct (greeting cards good taste, excuse ...)	0	1	2	3	4	5
	It manifests moral sense (recognise appropriate and inappropriate behaviour, manifested honesty ...)	0	1	2	3	4	5
PURPOSEFUL BEHAVIOR AND SELF-REFLECTION	He can evaluate their own behaviour and its consequences in simple situations (with an adult)	0	1	2	3	4	5
	Independently performs tasks and evaluate results	0	1	2	3	4	5
	He can wait for his turn	0	1	2	3	4	5
	Patiently overcomes obstacles	0	1	2	3	4	5
	Appropriately gestures (gestures is poor or too strong)	0	1	2	3	4	5
	Adapts to changes, new situation, environment ...	0	1	2	3	4	5

Fig. 2. Sample of the observation record keeping sheet

Every area is filled with 5 – 6 partial items evaluated on a scale 0 (= does not occur at all, does not manage) – 5 (occurs commonly, manages without problems).

Between the initial and final examination, the experiment group took part in an intervention program of motoric activities primarily from the area of psychomotor activities aimed at the social skill development. When putting together the program, our goal was to utilize mainly those activities, which can be easily integrated in a common day in a kindergarten, and which are not financially demanding. The program consisted of 12 lessons of 90 minutes.

6. Findings

Currently, the gained data is being evaluated by means of statistical methods, as well as thorough content analyses of interviews and data gained through the CATO test. In this text, we present only running results gained from records of observations with the experimental group. In other steps, we will assess the ascertained differences from the perspective of statistic significance of these changes and their comparison with the control group. The data will also be subject to more thorough analysis by individual items.

Figure 3 shows average values measured in individual categories (on a scale 0 – 5 points) and their comparison in the pre-test and post-test. As evident, we've detected positive development in all observed categories. The highest initial level (pre-test) was seen in category purposeful behavior, self-reflection (3,057). On the contrary, the lowest initial level can be seen in the area of relationships with peers (2,697). The highest final level (post-test) in the experimental group was reached in category communication (3,321), by contrast the lowest average final value was measured in category relationships with peers. In table 1, there is the overall order of individual categories according to average measured values with the experimental group in pre-test and post-test.

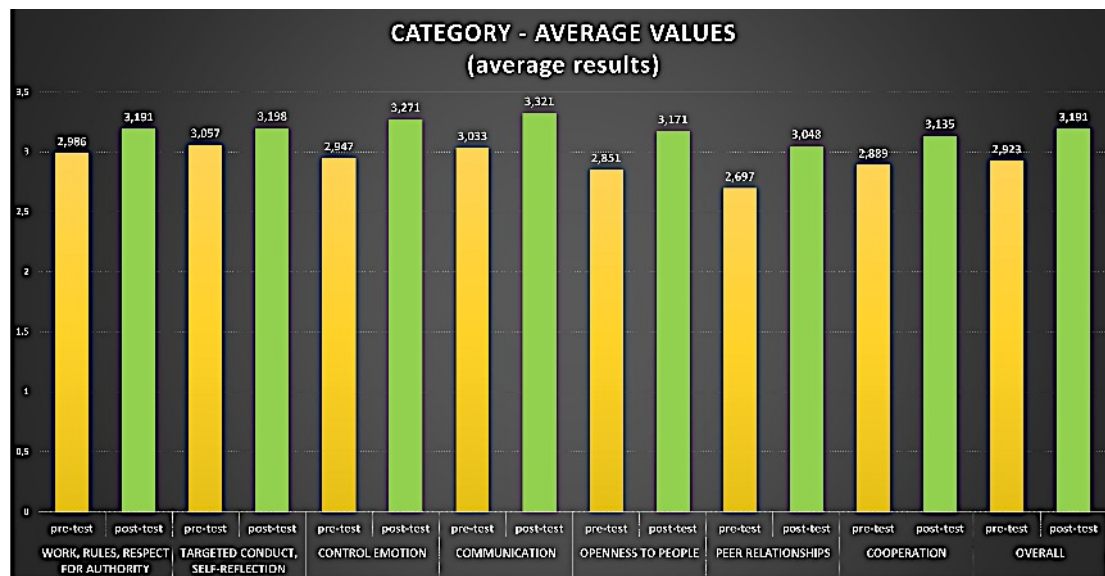


Fig. 1. Average values in individual categories

Table 1. Order of observed categories in pre-test and post-test (\bar{x} = arithmetic mean)

PRE-TEST		POST-TEST	
\bar{x}	KATEGORIE	\bar{x}	KATEGORIE
3,057	Purposeful behavior, self-reflection	3,321	Communication
3,033	Communication	3,271	Regulation of emotions
2,947	Regulation of emotions	3,198	Purposeful behavior, self-reflection
2,986	Work, rules, respect for authority	3,191	Work, rules, respect for authority
2,889	Co-operation	3,171	Openness to people
2,851	Openness to people	3,135	Co-operation
2,697	Relationships with peers	3,048	Relationships with peers
2,923	MEAN FOR ALL CATEGORIES	3,191	MEAN FOR ALL CATEGORIES

Further on, we observed differences between boys and girls. In Figure 4, there are average differences of initial and final measure for individual categories (average values) and their comparison with a group of boys and a group of girls. The most considerable growth of average values was registered in the area of relationships with peers (0,352), regulation of emotion (0,325) and openness to people (0,320). Girls show the most considerable improvement in category relationships with peers (0,316), regulation of emotions (0,273) and communication (0,144). It is interesting that with girls, there was low improvement in category purposeful behavior, self-reflection (0,029). With the group of boys, the highest improvement was in category communication (0,407), relationships with peers (0,407), openness to people (0,4) and regulation of emotion (0,4).

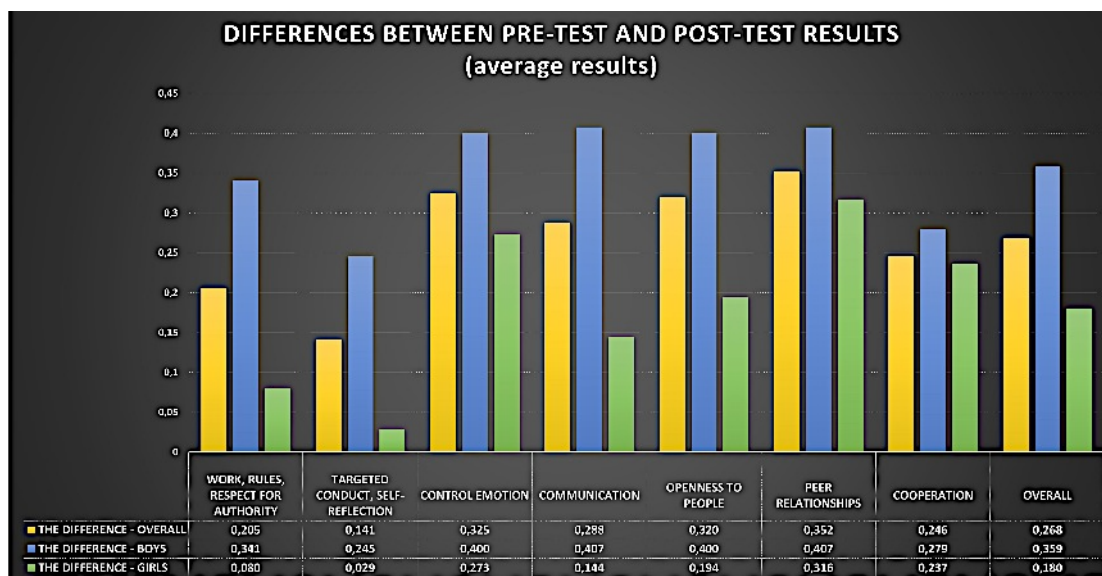


Fig. 2. Average differences with boys and girls according to observed categories.

In table 2, we again present an overview of the overall order of categories according to the rate of improvement with a group of girls, boys and with the whole experimental group. There was major improvement in category relationships with peers. On the contrary, the category purposeful behavior and self-reflection showed the lowest improvement with both boys and girls. The interesting point is that this improvement with girls is negligible (0,029). The overall more considerable improvement of the observed categories is seen definitely with boys (0,359) in comparison with girls (0,180). However, it is necessary to say, that in all categories, the girls showed higher average values compared to boys both in pre-test and post-test, even in the mentioned category purposeful behavior, self-reflection. Higher improvement with boys thus didn't lead, as a result, to higher achieved results, but only to reduction of differences between boys and girls.

Table 2. Observed improvement in individual categories with boys, girls and the group as a whole (\bar{x} = arithmetic mean)

BOYS		GIRLS		OVERALL	
\bar{x}	CATEGORY	\bar{x}	CATEGORY	\bar{x}	CATEGORY
0,407	Communication	0,316	Relationships with peers	0,352	Relationships with peers
0,407	Relationships with peers	0,273	Regulation of emotion	0,325	Regulation of emotion
0,400	Regulation of emotion	0,237	Co-operation	0,320	Openness to people
0,400	Openness to people	0,194	Openness to people	0,288	Communication
0,341	Work, rules, respect for auth	0,144	Communication	0,246	Co-operation
0,279	Co-operation	0,080	Work, rules, respect for auth.	0,205	Work, rules, respect for auth.
0,245	Purposeful behavior	0,029	Purposeful behavior	0,141	Purposeful behavior
0,359	TOTAL	0,180	TOTAL	0,268	TOTAL

7. Conclusions

The work presents running results of a pedagogical experiment, whose aim was to verify the program of motoric activities focused on social skills development in pre-school aged children. The

program consisted of 12 lessons consisting primarily of psychomotor activities. The initial and final examination consisted of individual interview, structured non-participating observation, drawing of a figure and a projective CATO test.

The partial results suggest that well-chosen motoric activities from the area of psychomotor activities lead to development of social skills in pre-school aged children, namely in the area of respecting rules, regulation of own emotions and the ability to co-operate with other children.

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