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JOURNAL	World Science
p-ISSN	2413-1032
e-ISSN	2414-6404
PUBLISHER	RS Global Sp. z O.O., Poland

ARTICLE TITLE	THE MEANS OF SPECIAL ORIENTATION OF CHILDREN WITH VISUAL IMPAIRMENTS IN FAMILY EDUCATION CONDITIONS
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ARTICLE INFO	Sona Davtyan, Babayan L. A. (2021) The Means of Special Orientation of Children with Visual Impairments in Family Education Conditions. World Science. 11(72). doi: 10.31435/rsglobal_ws/30122021/7731
DOI	https://doi.org/10.31435/rsglobal_ws/30122021/7731
RECEIVED	28 October 2021
ACCEPTED	17 December 2021
PUBLISHED	22 December 2021
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THE MEANS OF SPECIAL ORIENTATION OF CHILDREN WITH VISUAL IMPAIRMENTS IN FAMILY EDUCATION CONDITIONS

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DOI: https://doi.org/10.31435/rsglobal_ws/30122021/7731

ARTICLE INFO

ABSTRACT

Received: 28 October 2021 Accepted: 17 December 2021 Published: 22 December 2021

KEYWORDS

children with special needs, development, visual impairment, orientation, mobility, skills, education, family. In the article the main directions, theoretical-practical ways of development of spatial orientation of preschool children with visual development, and its necessity in family education conditions are presented. The aim of the research is to elaborate means, methods and conditions of their application for development of the ability of the spatial orientation of preschool children with visual impairments in family settings. To provide parents with visual knowledge is the result of implemented works.

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Introduction. Orientation is the ability of the visually impaired child to perceive and understand his/her position and location within a given environment. Children learn about their environment as they move through it about people and objects, sizes, shapes, and distances. For typically developing children the senses of sight and hearing provide the greatest motivation for exploration. These children will use their vision and hearing to gather information about their surroundings while growing in understanding of their own bodies and their own capabilities of movement. The sight of toys or people and the sounds of voices or objects encourage them to move and discover. As they do so, they gather, recognize, and interpret an amazing array of sensory information.

Mobility is the ability to move about within a given environment. These abilities do not suddenly appear at a specific time or age, but have an underlying conceptual foundation which begins at birth. For visually impaired infants, many factors contribute to the quality of these emerging conceptual foundations: the quantity/quality of available vision; whether that vision will remain the same, improve, or deteriorate; whether there are other disabilities (hearing, motor, tactual defensiveness, impaired senses of smell or taste); alertness/receptivity. Initial mobility factors are largely motor-based, and depend to a great extent on the development of the motor system. Milestone skills such as head control, sitting unsupported, independent hand/arm use (as in grasping and reaching), creeping/crawling, standing alone, and walking independently are all pre-mobility skills.

It is known that preschool age plays an important role in general development of both typically developing children and children with visual impairments. Profound and partial visual impairments complicate spatial orientation of these children. Therefore, the development of the ability of spatial orientation of preschool children with visual impairments in family has an exceptionally important value. At the same time, the insufficient scrutiny and elaboration of the issue significantly impede the works of formation and development of abilities of spatial orientation of preschool children in family. The content

of the work aimed at the development of abilities of the spatial orientation of preschool children with visual impairments in family settings is not studied, there is no elaborated sample program for formation and development of the ability of micro and macro spatial orientation of preschool children with visual impairments. That's why a comprehensive study of these issues and the experimental elaboration of special means, methods, conditions of their application and a sample program for formation and development of abilities of spatial orientation of preschool children with visual impairments in family settings is very urgent, theoretically and practically significant.

The aim of the research is to elaborate means, methods and conditions of their application for development of the ability of the spatial orientation of preschool children with visual impairments in family settings.

The objectives of the research are the following:

1. To study the level of scrutiny of the issue theoretically and practically;

2. To study the ability of spatial orientation of preschool children with visual impairments;

3. To elaborate special means, methods and conditions of their application for development of abilities of the spatial orientation of preschool children with visual impairments in family settings;

4. To experimentally justify the efficiency of application of the recommended approaches.

When a child can not access his world efficiently through his vision, he must learn to use his other senses more effectively. Systematic instruction is needed to develop the other senses for use in travel and finding things in the environment. He must understand that some of the sounds and smells and textures he experiences can be used as permanent markers (landmarks) to let him know where he is in the world. Other pieces of information may be there sometimes and not at other times (clues) such as the sound of the water fountain. Developing sensory awareness is critical for the child with visual impairments or blindness. Most children with visual impairments are capable of learning routes in familiar environments.

They learn to use landmarks and clues to help them know where they are along a particular route. They learn specific adaptations to aid them in their movement. These might include understanding that tactual markers on doorways identify the gym or the restroom, using an adaptive mobility device or a cane to identify obstacles and drop-offs, or locating a street sign using a monocular. A primary goal of orientation and mobility training is to help each child with visual impairments achieve independent movement to as great a degree as possible. Independent movement is critical for all children with visual impairments. Orientation and Mobility specialists are trained to provide instruction which will enable children with visual impairments to reach their highest level of independence.

The Theoretical Significance of the Research is determined by the theoretical statement of efficiency of recommended approaches to formation of the ability of spatial orientation of preschool children with visual impairments in family settings and by the research results.

Many parents choose to homeschool their children because they can not always guarantee that their child will receive an adequate education through the public school system. For parents with blind or visually impaired children, homeschooling may be even more appealing because they can provide their child with the attention and additional resources that they will need to succeed in a learning environment. In order to homeschool a blind or visually impaired child you should establish yourself as a home educator, provide your child with assistive technology, modify the learning experience to suit the needs of your child, and provide your child with an opportunity to socialize with other children. Spatial orientation is a person's skill in using the information received through their senses to determine their position in space and their destination in relation to significant objects in the environment. In the context of visual impairment, this term refers more specifically to knowledge of distances and directions that relate to objects in the environment and have been observed or memorized, and the ability to commit these spatial relationships to memory when they change as the person proceeds. Spatial skills are defined by putting in place and using spatial relations between a particular place and oneself (e.g. in a given fixed position) or between different places (independently of one's own position).

Orientation integrates perceptual and cognitive learning. Integrating the sensory information needed for orientation requires conceptual development that includes among others, body scheme, the body-to-object relationship, spatial updating, the object-to-object relationship, the environment and time, as well as conceptual understanding of objects.

Spatial orientation may be affected by dysfunction of any of the basic sensory systems (touch, proprioceptive, vestibular, olfactory, auditory or visual). The development of orientation skills and the

construction of a mental representation of the environment are also related to various cognitive faculties such as attention capacity, short-term, long-term and topographic memory, and language skills.

At an integration level, mental representation of space involves localizing the stimulus, spatial memory, inference skills, and using symbolic representations and cognitive maps.

So practical Strategies for Families

 \checkmark Provide opportunities for your child to explore all areas of his or her environment, particularly the home. Help the child locate stationary landmarks that provide reference points. For example, a child may know that he is in his bedroom after locating his dresser with the "special" handles. Be sure to allow him to find this dresser so he will know when he is in the bedroom.

 \checkmark Let your child experience a variety of surfaces such as carpet, tiled floors, vinyl flooring, grass, sidewalks.

 \checkmark Allow your child to participate fully in activities. For example, if he wants to play with toys, help him go to the place where the toys are located and select the toy that interests him. Travel back to the play area together. This process allows him to understand his environment more completely, as compared to having the toys simply brought to him.

 \checkmark Make full use of "reference points," those clues that help us know where we are.

We have all experienced being lost in an unfamiliar city, only to become "reoriented" once we locate a familiar landmark. Similarly, children who are deaf-blind need to learn to use reference points to help them stay oriented in their environment. Reference points can be auditory, tactile, olfactory, or visual.

 \checkmark Encourage your child to travel as independently as possible. If he can walk independently, allow him to do so. If he is learning to walk with a guide, don't hold his hand and pull him along with you. If he is capable of reaching out to locate a desired toy, don't allow it to "magically appear" by bringing it to him.

 \checkmark Make use of physical boundaries so the child can better understand his surroundings. It is much easier to comprehend a play area bounded by wall dividers or bookshelves than an arbitrary space in the middle of a large room.

 \checkmark Provide opportunities for the child to solve problems on his or her own.

Refrain from rescuing him or her prematurely.

 \checkmark Help a child associate familiar toys and objects with the environments in which they may be used. For example, show him the washcloth before walking to the bathroom for a bath, or the ball before traveling to the school gymnasium.

These the organizing and passing the numbers made theoretical approaches formation of the spatial side detection capabilities and the development of preschool child who have vision problems, and the point of view and practical ways are aimed at improving that work in a family. The formation and development of spatial side detection capabilities in a family only in these conditions will be possible to have a positive result.

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