

Determinants and standards of classroom furniture for children with learning disabilities (in early childhood)

Prof. Adel Adly

Professor Emeritus, Department of Interior Design and Furniture, Faculty of Applied Arts, Helwan University

adel_aboanana@arts.helwan.edu.eg

Researcher. Heba Abd-Elsalam

Department of Interior Design and Furniture, Faculty of Applied Arts, Helwan University

mrashed2000@yahoo.com

Abstract:

School furniture must comply with a set of standards and requirements, including ergonomic, pedagogical, educational, technical and economical. Since children spend most of their school day sitting either writing, reading, listening or looking at the teacher, furniture that is not suitable for the psychological nature of children with learning difficulties can hinder the educational process. Research also shows that the most significant cause of lower back pain in children and adolescents is out-of-box furniture, which is often mismatched and does not support children's health, comfort, or learning style. Good posture is not only key to skeletal health and muscular, but it also stimulates focus, ease of perception and the growth of thinking. Thus, well-designed furniture sized appropriate for the age and behavioral characteristics of children with learning disabilities will support learning and behavior.

And by studying the new European standard EN1729 to determine the dimensions of school furniture based on the signs of size and additional heights to improve performance, and the stability of units to suit the dynamics of movement for children with learning difficulties. Click on the load points according to the standards

Keywords:

Standards, classroom furniture, hyperactivity disorder, children with learning disabilities, educational spatio-environment

Introduction :

Childhood is one of the most important life stages that a person goes through, and it is the first imprint of a person in his life. It is a formative stage in which the basis of the individual's personality is formed and during which he acquires a set of habits, traditions and behaviors that qualify his compatibility with his natural and social environment, and as the experiences that the child interacts with, especially those with learning difficulties It leads to crystallizing his abilities and talents and defining the main features that he will have in the future

Researchers and scholars in the fields of childhood cared for the child to develop his abilities, and this was not limited to educators only, but the field of interior design did not neglect that.

Furniture is considered one of the most important elements of the educational spatial environment, and the focus will be on a specific category of its users, which is children with learning difficulties, because of their different behavioral and physiological characteristics from the rest of their peers.

This research will address a set of standards and requirements for school furniture used within the educational spatial environment, which must be compatible with the psychological nature of children with learning difficulties that can hinder the educational process. Research also shows that good posture is not only the key to skeletal and muscular health, but it is also a catalyst for focus, cognitive ease, and thinking growth. Thus, specially designed furniture of appropriate size for the age and behavioral characteristics of children with learning difficulties will support the educational process within the educational spatial environment in accordance with their characteristics.

Search goal:

Develop specification and standards for classroom furniture for children with learning difficulties (in early childhood)

Research problem :

Furniture in the educational spatial environment for children with learning difficulties lacks design determinants with psychological dimensions that have a positive impact on developing the capabilities of children with learning difficulties and their creative and educational skills.

- Marginalization of the need to design furniture that has special specifications within the educational spatial environment for children with learning difficulties in light of recent technological developments, although the percentage of people with learning difficulties increases and is evident in children of learning age, as some indicate that the age of 4199 was spreading from 2:5% of children in early childhood, then increased from 2000 to 2010 to reach 12:4%.

Research Importance :

We conclude from the introduction and the objective the importance of setting design parameters for educational furniture during the process of developing an idea for the interior design of the classroom for children with learning disabilities through the following hypotheses:

1. Establishing a relationship between some concepts of psychology for children with learning difficulties and the design of furniture units that occupy the spare space of an educational environment.
2. Applying standard standards for educational furniture to detect its weaknesses that lead to harm to the child and breach the purpose of the design.

Research Methodology :

Descriptive method:

It includes a theoretical study of the psychology of children with learning difficulties and its connection to the interior design of the classroom and the standard criteria for designing furniture units within an educational spatial environment and its impact from a psychological point of view, and an analysis and its impact from a psychological point of view through an analytical field study of furniture design at the present time.

Research Results :

1. That movement can be an effective cognitive strategy in order to enhance learning, improve memory and retrieval, and enhance the learner's motivation and morale. If movement and learning are related, we must design a moveable seat to adapt to the nature of children with learning difficulties, as movement contributes to giving children with learning difficulties An opportunity to develop their senses, motor and cognitive abilities, and open a group of phases in which their physiological and mental desires are met.
2. Applying safety and security standards when designing furniture units within the educational spatial environment for children with learning difficulties.

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