



THE ROLE OF KINDERGARTEN ARCHITECTURAL DESIGN IN INCREASING THE CREATIVITY OF CHILDREN

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Article history:	Abstract:
<p>Received: September 4th 2021 Accepted: October 2th 2021 Published: November 26th 2021</p>	<p>The purpose of this paper is to explore the role of kindergarten design in increasing creativity of 3-6 year old children in district 3 of Afghanistan. For this reason, Some features of the architectural system and its role in increasing children's creativity have been investigated. Studies have shown that the kindergarten space can be designed in such a way that the child's motivation is enhanced, the power of imagination and curiosity can be enhanced and, It fosters the child's creativity. The study of children's cognitive factors was carried out by attitude test of child educators. The sampling method was random cluster sampling and the sample size was 90 people. And a researcher-made questionnaire has been used, and the factors affecting children's creativity have been extracted by factor analysis and based on analysis, a model A line has been designed. Then, the relationship and the effect of factors on each other were obtained by path analysis method. The findings show that stimulating the natural environment has a positive and significant effect on the three factors of exploring, participation game and daydreaming. The effect of design flexibility in kindergarten space on children's curiosity and daydreaming is positive and significant. Architectural ideas for designing kindergarten spaces to enhance children's motivation and creativity, including: variability of space and its implementation, interference of spaces Open and closed, variability and regeneration of natural stimulant elements such as light, water and plants are effective in increasing children's creativity.</p>

Keywords: Kindergarten design, Architectural design, Room standard design, Child room size, Color

PRINCIPLES OF KINDERGARTEN DESIGN

The concept of kindergarten

Kindergarten is the first place through which a child is present in society. A child who grew up at home with a family; Now he has to leave the quiet environment of the house he is used to for a few hours every day and establish a relationship with his stranger peers in a strange environment. This connection will certainly not be easy for a young child. So with the right design, help the child to easily communicate with the environment.

In designing a kindergarten building, three parts must be considered.

1- Child part



2- Staff part

3- Parents part.



Spaces should be designed according to the scope of the program and the number of staff. The waiting area should also be included in the design of the kindergarten, and in this space, there should be few facilities for children's entertainment.

In this environment, you should use soft colors on the floor and walls and the main colors of yellow, blue and red in other devices. Doors should allow children to leave quickly, and children's toilets should be designed to fit their height.

The small space of the kindergarten

Entrance Filter - Central Hall - Management Room with a place to talk to parents - Parents' waiting area - Children's temporary entertainment space - Staff locker room - Staff service - Children's service - Kitchen and storage - Gym and group play - Warehouse Play equipment - Painting and working workshop with paint and handicrafts - Group classes for 15 to 20 children - Children's rest area

Notes in design

- The path of the child from outside the building to inside and inside the building should not have a difference in level.
- The use of sharp and winning objects in landscaping and space of the kindergarten is not allowed.
- Garbage collection and separation bins should be controlled in terms of waste secretion and penetration and out of reach of children.
- Outdoor design should be in a way that does not cause parents to feel worried.
- The elements of the environment should be designed in such a way as to deprive the child of the possibility of climbing.
- Handle at the entrance, which is normally designed at a height of one meter. In the kindergarten, it should be more than one meter and 50 centimeters high from the inside. So that the child cannot open it.

Kindergarten managers and staff

Kindergarten managers and staff should be educated in the same field of work and be mentally balanced to be kind to children and know and meet the spiritual needs of children.



Review of different sections of kindergarten:

Group classes

Dimensions required for each class: Each child needs 1.5 square meters of surface and 4 cubic meters of space, for example, for 25-30 children, an area of 45-70 square meters is required.

Arrange the table and chair according to the theme.

Create space to place the equipment of each group.

Normal classes

Each age group has one class

Use sliding doors or false walls to separate classrooms

Classes are located to the south or southwest of the building

The maximum width of the windows is 60 cm

Use sound and shockproof insulation for walls

Use soft cover and waterproofing for rooms

Use oil paints up to a height of 1.5 meters

Standard cabinets and drawers



Officials rest room

- manager's office
- Meeting room with parents
- Officials rest room
- Caretaker room

Corridor and entrance space of kindergarten and locker room

- Create a place to deliver and pick up the baby
- Avoid creating long corridors
- Create an entrance toilet
- Spatial design for the dressing room

Kindergarten kitchen

- The dimensions of the kitchen are proportional to the number of children
- Existence of a large refrigerator
- Existence of all kinds of dining utensils
- Existence of necessary facilities for simultaneous heating of food

Existence of a space for dining



Children's playground

Existence of suitable green space

Creating sandy soils with a height of 35 to 40 cm in the equipment area

Anticipate an indoor hall

Having enough shadow levels

Kindergarten safety tips

Install switches and sockets within reach of the child at a height of 2.5 meters

Create a wooden guard around the boiler

Install bumpers around the columns

Installation of bumpers at the edge of all stairs (construction of soft stairs)

Install protection (wooden or plastic) from floor to ceiling

Install protective railings outside all windows

General features of classes

Each room must have a file

For ventilation, the presence of a ventilator in each room is mandatory

Rooms must be connected to management via iPhone

Change the interior decoration of the rooms every 6 months

Each class has a thermometer to adjust the ambient temperature

Install decorations on the wall from 1.5 meters up

The lamps should be at a maximum distance of 1 meter from the ceiling



- Each application space must be designed with each of its unique colors.
- For example, in the locker room, a table with a light color looks more appropriate, which is decorated with attractive shapes and ornaments.
- To design a kindergarten, you should not forget the importance of lighting because lighting has a great impact on the beauty of children's space.

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