

Architectural Design-IV(26151)Lesson-07

State the site selection criteria and space allocation of a school

Site Selection Criteria for a School

Choosing the right location for a school is crucial for safety, accessibility, and a good learning environment. The following criteria should be considered:

1. Location & Accessibility

- Easily accessible by students, teachers, and staff.
- Well-connected by roads, public transport, and pedestrian pathways.
- Safe distance from busy highways, industries, and hazardous areas.

2. Size & Topography

- Sufficient land area for current and future expansion.
- Flat or gently sloping terrain to reduce site development costs.
- Good soil quality for construction and landscaping.

3. Environmental & Climatic Considerations

- Adequate sunlight and ventilation.
- No environmental hazards like flooding, landslides, or pollution.
- Green spaces for outdoor activities and sustainability.

4. Infrastructure & Utilities

- Availability of water, electricity, and drainage systems.
- Proper sanitation and waste management facilities.
- Internet and ICT infrastructure for modern learning.

5. Safety & Security

- Distance from high-noise areas like factories, railways, or airports.
- Secure boundary walls and entry-exit controls.
- Emergency evacuation routes and disaster preparedness measures.

Space Allocation in a School

The space allocation depends on student capacity, curriculum needs, and extracurricular activities. Below is a general breakdown:

1. Academic Spaces

- **Classrooms:** 1.5 - 2.0 sqm per student.
- **Science Laboratories:** 80 - 100 sqm per lab.
- **Library & Reading Areas:** 0.3 - 0.5 sqm per student.
- **Computer Labs:** 50 - 80 sqm with workstation setup.
- **Art & Music Rooms:** 50 - 70 sqm for creative activities.

2. Administrative & Staff Areas

- **Principal's Office:** 15 - 20 sqm.
- **Teachers' Room:** 30 - 50 sqm.
- **Meeting/Conference Room:** 30 - 50 sqm.
- **Reception & Waiting Area:** 20 - 30 sqm.

3. Recreational & Outdoor Areas

- **Playground/Sports Field:** 2000 - 4000 sqm.
- **Multipurpose Hall/Gymnasium:** 300 - 500 sqm.
- **Outdoor Assembly Area:** 500 - 1000 sqm.

4. Support Facilities

- **Canteen & Dining Area:** 1.0 - 1.5 sqm per student.
- **Toilets & Washrooms:** 1 toilet per 50 students (separate for boys & girls).
- **Parking Space:** 1 parking spot per 10 staff members and visitors.