**SPACE TYPES & REQUIREMENTS**

**Gymnasium**

School Type: E M H

### Functional Area Descriptions

The focus of physical education has evolved to include all aspects of the healthy lifestyle of individuals. Physical education is therefore directed toward fitness and wellness through activity and theory-based instruction for nutrition and healthy lifestyle choices. Gym spaces should accommodate the evolving curriculum of physical education.

The gymnasium is an area that may be used for after-school events, so it should be able to function discretely from the remainder of the school building. Provide an interior gathering/meeting space directly adjacent to the gymnasium functions. The area should connect to both interior and exterior school circulation—it may be the common shared space, or a separate lobby area. Public restrooms should be located near the gymnasium and accessible for after school events.

**1 Gymnasium**

The gymnasium provides a dedicated space for physical education. Provide a clear ceiling height of 24 feet (7.32 m). Windows, light fixtures, and mechanical equipment must withstand the impact abuse of balls. Include a recessed alcove with drinking fountains. A divider curtain is desirable to allow two activities to occur simultaneously.

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**Education Facilities Specifications**

04 February 2014

**Adjacency Diagram**

(High School)

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**Planning Requirements**

<table>
<thead>
<tr>
<th>Area Description</th>
<th>SF</th>
<th>M²</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gymnasium</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Gymnasium—ES</td>
<td>5,075</td>
<td>471.5</td>
<td>Provide 2 for enrollment ≥1000</td>
</tr>
<tr>
<td>1 Gymnasium—MS</td>
<td>6,500</td>
<td>603.9</td>
<td>Provide 2 for enrollment ≥ 1000</td>
</tr>
<tr>
<td>1 Gymnasium—HS</td>
<td>7,500</td>
<td>696.8</td>
<td>Provide 2 for enrollment ≥ 1000</td>
</tr>
<tr>
<td>1 Spectator Seating</td>
<td>varies</td>
<td>varies</td>
<td>Refer to Spectator Seating Table</td>
</tr>
<tr>
<td>2 Auxiliary Gym—MS and HS only</td>
<td>2,500</td>
<td>232.3</td>
<td>For enrollment 700–999</td>
</tr>
<tr>
<td>3 PE Storage</td>
<td>varies</td>
<td>varies</td>
<td>Enrollment; Min 400 SF</td>
</tr>
<tr>
<td>4 PE Staff Collaboration **</td>
<td>140</td>
<td>13.0</td>
<td>Per staff position</td>
</tr>
<tr>
<td>5 PE Staff Restroom</td>
<td>75</td>
<td>7.0</td>
<td>One per school; MS &amp; HS &gt; 500, provide 2</td>
</tr>
<tr>
<td>6 Locker Rooms—MS and HS only</td>
<td>varies</td>
<td>varies</td>
<td>(Class lockers + individual lockers)*12</td>
</tr>
</tbody>
</table>

**Athletic Facilities**

<table>
<thead>
<tr>
<th>Area Description</th>
<th>SF</th>
<th>M²</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Athletic Locker Rooms—HS</td>
<td>400 ea M/F</td>
<td>37.2 ea M/F</td>
<td>Enrollment &gt; 200</td>
</tr>
<tr>
<td>8 Athletic Football Locker Room—HS</td>
<td>300</td>
<td>27.9</td>
<td>Enrollment &gt; 200 where HS has a football team</td>
</tr>
<tr>
<td>9 Athletic Team Room</td>
<td>500</td>
<td>46.5</td>
<td>Enrollment &gt; 200</td>
</tr>
<tr>
<td>10 Athletic Weight Room—HS</td>
<td>850</td>
<td>79.0</td>
<td>Enrollment &gt; 200</td>
</tr>
<tr>
<td>11 Athletic Workspace</td>
<td>100</td>
<td>9.3</td>
<td>Enrollment &gt; 200</td>
</tr>
<tr>
<td>12 Athletic Storage—HS</td>
<td>varies</td>
<td>varies</td>
<td>Enrollment &gt; 200; Enrollment x 0.6, min 250</td>
</tr>
<tr>
<td>13 Athletic Laundry—HS</td>
<td>100</td>
<td>8.3</td>
<td>Enrollment &gt; 200</td>
</tr>
<tr>
<td>14 Athletic Training Room—HS</td>
<td>200</td>
<td>18.6</td>
<td>Enrollment &gt; 200</td>
</tr>
</tbody>
</table>

**Notes:**

**Administrator:** PE has curriculum specific storage.

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**21st Century Schools**

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**dodea**

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**Gymnasium**

Common Shared Spaces
**Elementary Schools – ES**
The gymnasium at the elementary school does not require space for competition sports and **shall have no spectator seating.** The curriculum at this age is more skills-based. If basketball court markings are provided, the largest court that can be accommodated is 42 feet x 74 feet (12.8 m x 22.6 m). Six basketball goals shall be provided. At least two shall be adjustable in the 6—8 foot (1.8—2.4 m) range and two shall be adjustable in the 8—10 foot (2.4—3.1 m) range. Positioning of these goals should allow for concurrent use by small groups of students. Multiple colored activity lines shall be provided.

**Middle Schools and High Schools – MS/HS**
The gymnasium at the middle school or high school level should accommodate a 50 feet x 84 feet (15.2 m x 25.6 m) basketball court and a regulation volleyball court. Provide a minimum of 10 feet (3.1 m) out-of-bounds at the ends of the court and 6 feet (1.8 m) at the sides. Six basketball goals shall be provided. There is no requirement for the height of these goals to be adjustable. Depending on the arrangement of spectator seating, retractable goals may be required on the cross courts. Supply additional lines to accommodate the educational program.

**Spectator Seating—MS/HS**
A minimum of 100 seats of telescoping bleachers shall be provided in all middle schools. Spectator seating for high schools shall be based upon school enrollment. See detailed planning requirements chart for area allocations and minimum number of seats to be provided. In high school gymnasiums intended for competition sports, additional area for spectator seating is included. When used for competition, the bleachers may not encroach on the safety area of the court when extended.

**2 Auxiliary Gym**
Where provided, this space may be used for dancing classes, exercise, gymnastics, table tennis, wrestling, and other activities. The auxiliary gym should accommodate a 38 ft x 38 ft (11.6 m x 11.6 m) wrestling mat. The ceiling should be 24 feet (7.32 m) high if possible, with a minimum of 16 feet (4.9 m) high.

**3 Physical Education Storage**
This storage area provides storage for PE equipment. The room should include a pair of doors for a minimum 6-ft (1.8 m) wide opening, directly adjacent to the main gymnasium. Where possible, it should also include doors to the exterior for storage of equipment used on the fields.

**4 PE Staff Collaboration**
The Staff Collaboration space provides a personal workstation/personal storage, kitchenette and collaboration space for the PE Staff. Grouping of Staff Collaboration spaces is intended and highly desired. This space may be near the entry to the gymnasium or near the entrance to the locker rooms in middle and high schools. The staff must be able to view the Gymnasium from the Staff Collaboration space.

**5 PE Staff Restroom**
Elementary schools are provided one PE staff restroom, shower and changing area. Middle and high schools are provided two when the PE staff is greater than one. When only one PE restroom is provided, it shall be a single unisex restroom, shower and changing area.
area. These restrooms should be near the gymnasium and easily accessible to all staff members from common spaces so that the restrooms may fulfill the shower requirement for the alternative transportation LEED credit.

6 Locker Rooms – MS/HS

Locker rooms provide space for students to change clothing and store personal belongings while engaging in physical education or athletic events. Provide separate facilities for male and female students. Access to the locker rooms directly from the court area is preferred. Supervision of the locker area is a high priority. The staff collaboration space should be located close to the entrance to the locker rooms. This space will not have direct view into the locker rooms, but should be positioned for easy access for the staff. The locker rooms should also provide easy access to the exterior play fields. Consider privacy as well as easy supervision in the layout of the whole space.

PE lockers serve two purposes, to store personal belongings during class (class lockers) and to store uniform/shoes between classes (individual lockers). In most cases it is more efficient to provide larger lockers (full or half-height) for the class lockers and smaller lockers (4, 5, or 6-stack) for individual lockers. The number of toilets and showers is based on the typical number of students using the locker room, rather than the total number of lockers provided.

The following spaces shall be provided in high schools with competitive athletic programs. Middle schools with approved athletic programs (DoDEA-Americas) may also include these athletic spaces.

7 Athletic Locker Rooms – HS

Where Athletic Locker Rooms are provided, they will share restroom and shower facilities with the PE Locker Room. Provide 48 – 15 inch x 15 inch (38 cm x 38 cm) athletic lockers for boys and the same for girls. Athletic Lockers should be grouped together and not intermixed with the PE lockers. The Athletic Locker Rooms shall have the capability of being secured when not in use.

8 Athletic Football Locker Room – HS

Where the school has a football team, a separate football locker room shall be provided in the boys locker room area. This space will also share restroom and shower facilities with the PE Locker Room. Provide 30 - 24 inch x 18 inch (61 cm x 46 cm) football lockers.

9 Athletic Team Room – HS

Where the school has competitive team sports, a separate team room shall be provided. The team room shall be located so that it may be used by both male and female team sports, depending upon the seasonal sports program. There shall be no direct access from the locker rooms to the team room. In order to maximize flexibility, the team room may be located next to the Athletic Weight Room with a movable partition to provide additional fitness space when the team room is not in use.

10 Athletic Weight Room - HS

The weight room contains weight lifting apparatus and fitness equipment. Weight training consists of iron weights, barbells, dumbbells, flat benches, incline benches, squat machines, and other equipment. Fitness area consists of treadmills, stationary bikes,

<table>
<thead>
<tr>
<th>Locker Room Space Allocation (each locker room)</th>
<th>12 SF</th>
<th>Class Lockers (m/f)</th>
<th>Individual Lockers (m/f)</th>
<th>Toilets (Min.)</th>
<th>Showers (Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-299</td>
<td>18</td>
<td>50% enrollment/5</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>300-699</td>
<td>36</td>
<td>50% enrollment/5</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>700+</td>
<td>54</td>
<td>50% enrollment/5</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Lockers room space allocations are based on full height class lockers and 5-stack individual lockers, but other locker configurations may be provided within the indicated space allocation.

NOTE: Images shown are intended to provide real-world examples and spark design creativity.
step machines, floor mats for stretching, calisthenics and aerobics, and other equipment. Free weights and heavy lifting shall be in a separate zone from the cardio and fitness area for safety. Provide adequate maneuvering clearance around equipment for safety.

11 Athletic Workspace – HS
This space provides workspace for the athletic program. It may be used by the athletic director or coaches. It may be combined with the PE teacher staff collaboration for additional flexibility, or kept as a separate space specifically for the athletic program. Coaches may or may not be DoDEA employees, so this should be a consideration if there is a desire to combine this space with the staff collaboration.

12 Athletic Storage – HS
This storage area provides storage for equipment used by the athletic programs. The room may be divided with wire mesh partitions for separate storage areas for different sports. Additional storage may be provided at the concession/restroom facility near the athletic fields. This storage should be easily accessible to the athletic coaches.

13 Athletic Laundry - HS
Provide a small laundry facility for the cleaning of towels and uniforms. This area should be separate from the locker room area.

14 Athletic Training Room - HS
The training room contains injury treatment facilities. This space houses the trainer’s area, treatment table, ice machine and other related items.

Specialized Features (include as required)

All Schools
- Basketball hoops (6)
- Wall padding - 6 feet (1.83 m) high—main court area, auxiliary gym
- Chinning bars
- Volleyball standards
- Acoustical panels
- Gym divider curtain

MS/HS
- Main court basketball lines
- Main court volleyball lines
- Side court basketball lines
- Side court volleyball lines
- Side court badminton
- Lockers
- Benches

Schools with athletic program – HS and some MS
- Scoreboard (2 each min)
- Basketball shot clocks
- Fitness equipment
- Weight equipment
- Mirrors in locker room and weight room
- Interlocking rubber tiles under weight equipment

MANDATORY
If a design option allows the gymnasium to open to an adjacent space, you must have the capability to close off the gymnasium in order to limit noise intrusion into the adjacent areas while allowing for maximum flexibility in the use of both spaces.
### Spectator Seating

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>0-250</th>
<th>251-375</th>
<th>376-500</th>
<th>501-625</th>
<th>626-750</th>
<th>751-875</th>
<th>876-1,000</th>
<th>1,001-1,125</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Imperial (English) Units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 MS—Spectator Seating</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
<td>400 SF/100 seats</td>
</tr>
<tr>
<td>1 HS—Spectator Seating</td>
<td>800 SF/200 seats</td>
<td>1,200 SF/300 seats</td>
<td>1,600 SF/400 seats</td>
<td>2,000 SF/500 seats</td>
<td>2,400 SF/600 seats</td>
<td>2,800 SF/700 seats</td>
<td>3,200 SF/800 seats</td>
<td>3,600 SF/900 seats</td>
</tr>
<tr>
<td><strong>Metric Units</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 MS—Spectator Seating</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
<td>37.2 M²/100 seats</td>
</tr>
<tr>
<td>1 HS—Spectator Seating</td>
<td>74.3 M²/200 seats</td>
<td>111.5 M²/300 seats</td>
<td>148.6 M²/400 seats</td>
<td>185.8 M²/500 seats</td>
<td>223.0 M²/600 seats</td>
<td>2,60.1 M²/700 seats</td>
<td>297.3 M²/800 seats</td>
<td>334.5 M²/900 seats</td>
</tr>
</tbody>
</table>

**NOTES:**
1. Elementary schools **shall not** have spectator seating/bleachers. The gym is not intended for competition sports.
2. For all middle schools, provide telescoping bleachers for 100 spectators
3. Gymnasiums intended for competitions, the bleachers, when fully extended, shall not encroach on the safety area around the court.
Gymnasium Concept Perspective (Middle and High School)

NOTE: Images shown are intended to provide real-world examples and spark design creativity.

NOTE: 3D illustrations are shown for informational purposes and are not intended to limit design options.