REQUIREMENTS:
1. THE MSBA ALLOTMENT OF 1,440 NSF FOR EACH SCIENCE LAB IS BASED ON 60 NSF PER STUDENT (24 STUDENTS). SMALLER SCIENCE CLASSROOMS MAY BE CONSIDERED IF THE CLASS SIZE IS SMALLER, WITH A MINIMUM OF 60 NSF PER STUDENT.
2. THE DISTRICT AND DESIGN TEAM SHOULD PROVIDE FOR A SCIENCE LAB LAYOUT THAT ALLOWS AS MUCH FLEXIBILITY AND UNIVERSALITY AS PRACTICAL, GIVEN THE DISTRICTS SCIENCE DEPARTMENT EDUCATIONAL PLAN.
3. BOTH LAB AND LECTURE CONFIGURATIONS MUST BE ACCOMMODATED IN EVERY DESIGNATED SCIENCE LAB ROOM. SEPARATE LABS AND LECTURE ROOMS ARE NOT PERMITTED.
4. NO LAB RAISED UTILITIES, THAT MAY RESTRICT FLEXABILITY, ARE TO BE PROVIDED IN THE CENTRAL FLOOR AREA OF THE SCIENCE ... FROM THE CEILING MAY BE NEEDED FOR SOME DISCIPLINES, BUT ONLY IF THE PERIPHERAL UTILITIES CANNOT ACCOMMODATE MOST NEEDS.
5. NO FIXED CASEWORK IS PERMITTED IN THE CENTRAL FLOOR AREA.

NOTES:
1. THE ITEMS DESCRIBED BELOW AS "REQUIREMENTS" ARE MANDATORY, OTHER ITEMS ARE MSBA RECOMMENDATIONS ARE TO BE CONSIDERED "BEST PRACTICES."
2. THESE DIAGRAMS ARE EXAMPLES OF TABLE ARRANGEMENTS THAT CAN ACCOMMODATE A WIDE VARIETY OF ACTIVITIES, GROUPINGS, AND INSTRUCTIONAL CONFIGURATIONS THAT ARE TYPICAL OF LABORATORY WORK AND INSTRUCTION IN SMALL, MEDIUM, AND WHOLE-CLASS GROUPS.
3. THESE PLANS ARE TO BE CONSIDERED STANDARD TEMPLATE CONFIGURATIONS; SPECIFIC SCHOOL DESIGNS MAY VARY FROM THESE STANDARDS.

BEST PRACTICES:
1. STURDY, STANDING-HEIGHT TWO-STUDENT TABLES SHOULD MATCH THE HEIGHT OF PERIPHERAL COUNTER TOPS SO THAT STUDENTS PERFORM LAB WORK STANDING (PREFERABLE) AND "SEAT WORK" ON STOOLS.
2. SUITABLE UTILITIES WHERE NEEDED FOR POTENTIAL FUTURE CONFIGURATIONS.
3. SINKS SHOULD BE WIDE AND DEEP ENOUGH TO ACCOMMODATE BUCKETS AND OTHER LARGE CONTAINERS.
4. OPTIONAL FUME HOODS AND BIOSAFETY CABINETS SHOULD BE ACCESSIBLE FROM BOTH THE PREP ROOM AND THE CLASSROOM.
5. PROVIDE FULL BLACK-OUT WINDOW TREATMENT IN LABS.
6. PROVIDE MOVEABLE TEACHER DEMONSTRATION TABLES (NOT FIXED).
7. EACH LAB PREP ROOM SHOULD INCLUDE ONE REFRIGERATOR AND ONE DISHWASHER.
8. AT LEAST TWO MEANS OF EGRESS FROM EACH LAB SHOULD BE PROVIDED (THE BUILDING CODE MAY REQUIRE THIS, DEPENDING ON AREA).
9. PROVIDE VISUAL ACCESS BETWEEN LABS AND PREP ROOMS / PREP ROOM DOORS.
10. SHARED SPACES CAN BE REDUCED IN AREA, WITH SAVER AREAS REALLOCATED ELSEWHERE AS NEEDED.
11. PREP ROOMS AND CHEMICAL STORAGE SHOULD BE KEPT IN SUCH A WAY TO PROVIDE LIMITED ACCESS, FOR REQUIRED PERSONNEL ONLY.
12. AT THE DISTRICTS DISCRETION, CHEMICAL STORAGE CAN BE DIVIDED INTO SATELLITE STORAGE ROOMS, BUT CHEMICAL STORAGE IN PREP ROOMS IS DISCOURAGED.
13. SAFETY EQUIPMENT AND INFORMATION SUCH AS FIRE BLANKETS, STERILE EYE-PROTECTION, AND MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE LOCATED IN HIGHLY-VISIBLE AND EASILY-ACCESSIBLE PLACES, PREFERABLY NEAR EXITS AND OTHER REQUIRED SAFETY EQUIPMENT.
14. RATHER THAN GREEN HOUSES, CONSIDER DESIGNS THAT ALLOW PLANTS TO BE PLACED ON SHELVES OR MOVEABLE RACKS WITH ACCESS TO LIGHT FROM CLASSROOM WINDOWS.
NOTES:
1. THESE DIAGRAMS ARE EXAMPLES OF TABLE ARRANGEMENTS THAT CAN ACCOMMODATE A WIDE VARIETY OF ACTIVITIES, GROUPINGS, AND INSTRUCTIONAL CONFIGURATIONS THAT ARE TYPICAL OF LABORATORY WORK AND INSTRUCTION IN SMALL, MEDIUM, AND WHOLE-CLASS GROUPS.
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BEST PRACTICES:
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2. STUB UTILITIES WHERE NEEDED FOR POTENTIAL FUTURE CONFIGURATIONS.
3. SINKS SHOULD BE WIDE AND DEEP ENOUGH TO ACCOMMODATE BUCKETS AND OTHER LARGE CONTAINERS.
4. OPTIONAL FUME HOODS AND BIOSAFETY CABINETS SHOULD BE ACCESSIBLE FROM BOTH THE PREP ROOM AND THE CLASSROOM.
5. PROVIDE FULL BLACK-OUT WINDOW TREATMENT IN LABS.
6. PROVIDE MOVEABLE TEACHER DEMONSTRATION TABLES (NOT FIXED).
7. EACH LAB PREP ROOM SHOULD INCLUDE ONE REFRIGERATOR AND ONE DISHWASHER.
8. AT LEAST TWO MEANS OF EGRESS FROM EACH LAB SHOULD BE PROVIDED (THE BUILDING CODE MAY REQUIRE THIS, DEPENDING ON AREA).
9. PROVIDE VISUAL ACCESS BETWEEN LABS AND PREP ROOMS / PREP ROOM DOORS.
10. SHARED SPACES CAN BE REDUCED IN AREA, WITH SAVED AREAS REALLOCATED ELSEWHERE AS NEEDED.
11. PREP ROOMS AND CHEMICAL STORAGE SHOULD BE鍜venience, SUCH AS SIX 보다 WAYS TO PROVIDE LIMITED ACCESS FOR REQUIRED PERSONNEL ONLY.
12. AT THE DISTRICT’S DISCRETION, CHEMICAL STORAGE CAN BE DIVIDED INTO SATELLITE STORAGE ROOMS, BUT CHEMICAL STORAGE IN PREP ROOMS IS DISCOURAGED.
13. SAFETY EQUIPMENT AND INFORMATION SUCH AS FIRE BLANKETS, STERILE EYE-PROTECTION, AND MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE LOCATED IN HIGHLY-VISIBLE AND EASILY-ACCESSIBLE PLACES, PREFERABLY NEAR EXITS AND OTHER REQUIRED SAFETY EQUIPMENT.
14. RATHER THAN GREEN HOUSES, CONSIDER DESIGNS THAT ALLOW PLANTS TO BE PLACED ON SHELVES OR MOVEABLE RACKS WITH ACCESS TO LIGHT FROM CLASSROOM WINDOWS.

REQUIREMENTS:
1. THE MSBA ALLOTMENT OF 1,440 NSF FOR EACH SCIENCE LAB IS BASED ON 60 NSF PER STUDENT (24 STUDENTS). SMALLER SCIENCE CLASSROOMS MAY BE CONSIDERED IF THE CLASS SIZE IS SMALLER, WITH A MINIMUM OF 60 NSF PER STUDENT.
2. THE DISTRICT AND DESIGN TEAM SHOULD PROVIDE FOR A SCIENCE LAB LAYOUT THAT ALLOWS AS MUCH FLEXIBILITY AND UNIVERSALITY AS PRACTICAL, GIVEN THE DISTRICTS SCIENCE DEPARTMENT EDUCATIONAL PLAN.
3. BOTH LAB AND LECTURE CONFIGURATIONS MUST BE ACCOMMODATED IN EVERY DESIGNATED SCIENCE LAB ROOM. SEPARATE LABS AND LECTURE ROOMS ARE NOT PERMITTED.
4. NO LAB UTILITIES, THAT MAY RESTRICT FLEXIBILITY, ARE TO BE PROVIDED IN THE CENTRAL FLOOR AREA OF THE SCIENCE LABS. UTILITIES FROM A GRID SUSPENDED FROM THE CEILING MAY BE NEEDED FOR SOME DISCIPLINES, BUT ONLY IF THE PERIPHERAL UTILITIES CANNOT ACCOMMODATE MOST NEEDS.
5. NO FIXED CASEWORK IS PERMITTED IN THE CENTRAL FLOOR AREA.
6. THE INTENT IS TO DESIGN SPACES WITH MAXIMUM FLEXIBILITY FOR VARIED USES WITHOUT EXTENSIVE RECONSTRUCTION.
7. THE ITEMS DESCRIBED BELOW AS "REQUIREMENTS" ARE MANDATORY; OTHER ITEMS ARE MSBA RECOMMENDATIONS TO BE CONSIDERED "BEST PRACTICES."
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MID-SIZE GROUP / ROBOTICS CONFIGURATION 1

REQUIREMENTS:
1. THE MSBA ALLOTMENT OF 1,440 NSF FOR EACH SCIENCE LAB IS BASED ON 60 NSF PER STUDENT (24 STUDENTS). SMALLER SCIENCE CLASSROOMS MAY BE CONSIDERED IF THE CLASS SIZE IS SMALLER, WITH A MINIMUM OF 60 NSF PER STUDENT.
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2. THESE PLANS ARE TO BE CONSIDERED STANDARD TEMPLATE CONFIGURATIONS; SPECIFIC SCHOOL DESIGNS MAY VARY FROM THESE STANDARDS.

BEST PRACTICES:
1. STURDY, STANDING-HEIGHT TWO-STUDENT TABLES SHOULD MATCH THE HEIGHT OF PERIPHERAL COUNTER TOPS SO THAT STUDENTS PERFORM LAB WORK STANDING (PREFERABLE) AND "SEAT WORK" ON STOOLS.
2. STUB UTILITIES WHERE NEEDED FOR POTENTIAL FUTURE CONFIGURATIONS.
3. SINKS SHOULD BE WIDE AND DEEP ENOUGH TO ACCOMMODATE BUCKETS AND OTHER LARGE CONTAINERS.
4. OPTIONAL FUME HOODS AND BIOSAFETY CABINETS SHOULD BE ACCESSIBLE FROM BOTH THE PREP ROOM AND THE CLASSROOM.
5. PROVIDE FULL BLACK-OUT WINDOW TREATMENT IN LABS.
6. PROVIDE Movable TEACHER DEMONSTRATION TABLES (NOT FIXED).
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9. PROVIDE VISUAL ACCESS BETWEEN LABS AND PREP ROOMS / PREP ROOM DOORS.
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MID-SIZE GROUP / ROBOTICS CONFIGURATION 2

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