

**HIGH SCHOOL SCIENCE LAB/LECTURE ROOM REQUIREMENT
AS IMPACTED BY 4TH YEAR SCIENCE**

VARIABLES

Enrollment: 1,250 students
 Percent college prep: 70% (State Avg)
 Students per lab: 24
 Periods/day used: 5
 Schedule Utilization: 85%

NEW STANDARDS EXAMPLE

Lab Rms

College prep students (4y science):
 $875 \text{ /stdnts per lab/ periods per day/ utilization} = 8.58$
 Other students (2y science):
 $375 \text{ /stdnts per lab/ periods per day/ utilization/ 2} = 1.84$

 Total 10.42

Lab/Lecture rooms required: 11

OLD STANDARDS EXAMPLE

Lab Rms

College prep students (3y science):
 $875 \text{ /stdnts per lab/ periods per day/ utilization} \times .75 = 6.43$
 Other students (2y science):
 $375 \text{ /stdnts per lab/ periods per day/ utilization} \times .5 = 1.84$

 Total 8.27

Lab/Lecture rooms required: 9

Increase = 22.2%

**HS LECTURE/LAB ROOMS REQUIRED PER ENROLLMENT
AS IMPACTED BY 4TH YEAR SCIENCE**

VARIABLES

Percent college prep	70%
Students per lab	24
Periods/day used	5
Utilization	85%

Student Enrollment	Lab/lecture rms required	Net area of lab/lecture rooms (1)	Net area prep rooms (2)	Gross bldg area required (3)	Previous req't	Increase rate by new std
400	4	5,600	960	8,200	3	33.3%
500	5	7,000	1,200	10,250	4	25.0%
600	5	7,000	1,200	10,250	4	25.0%
700	6	8,400	1,440	12,300	5	20.0%
800	7	9,800	1,680	14,350	6	16.7%
900	8	11,200	1,920	16,400	6	33.3%
1,000	9	12,600	2,160	18,450	7	28.6%
1,100	10	14,000	2,400	20,500	8	25.0%
1,200	10	14,000	2,400	20,500	8	25.0%
1,300	11	15,400	2,640	22,550	9	22.2%
1,400	12	16,800	2,880	24,600	10	20.0%
1,500	13	18,200	3,120	26,650	10	30.0%
1,600	14	19,600	3,360	28,700	11	27.3%
1,700	15	21,000	3,600	30,750	12	25.0%
1,800	15	21,000	3,600	30,750	12	25.0%
1,900	16	22,400	3,840	32,800	13	23.1%
2,000	17	23,800	4,080	34,850	14	21.4%
2,100	18	25,200	4,320	36,900	14	28.6%
2,200	19	26,600	4,560	38,950	15	26.7%
2,300	20	28,000	4,800	41,000	16	25.0%
2,400	20	28,000	4,800	41,000	16	25.0%
2,500	21	29,400	5,040	43,050	17	23.5%
2,600	22	30,800	5,280	45,100	18	22.2%
2,700	23	32,200	5,520	47,150	18	27.8%
2,800	24	33,600	5,760	49,200	19	26.3%
2,900	25	35,000	6,000	51,250	20	25.0%
3,000	25	35,000	6,000	51,250	20	25.0%

Average: 25.22%

(1) Based on TEA minimum standard of 1,400sf for 24 students

(2) Based upon NSTA recommendation of 10sf/student

(3) Based on net/gross ratio of 80%