

MIDDLE SCHOOL INSTRUCTIONAL FORM

Area: Mathematics

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I. Program Philosophy

See District's Philosophy

II. Program Goals

1. To become literate and engage in lifelong learning.
2. To possess essential facts and definitions in mathematics,
3. To have the ability to work with algorithms, and use a functional set of problem-solving strategies.
4. To demonstrate a knowledge of arithmetic and everyday mathematics included in the content areas of number sense, concepts, and operations; measurement; geometry and spatial sense; algebraic thinking; and data analysis and probability. And understand how these areas relate to one another.
5. To become proficient in the mathematical process skills of communication, computation, and problem-solving strategies and use these skills to reason mathematically.
6. To have the ability to move from the concrete and into the abstract areas of mathematical understanding.
7. To use appropriate problem-solving techniques including modeling with manipulative, as well as using calculators, computers, and other technology as mathematical tools.
8. To appreciate the value of mathematics and its use in real life applications.

III. Program Activities

For purposes of clarification, we have assigned alpha letters to each area (room) description as listed on the Program Facilities List. Alpha room assignments are as follows:

IV. Program Facilities List

Fish Code	No. of Spaces	Description of Areas	No. of Students Per Area	No. Of Students Total	Net Sq. Ft. Per Unit	Gross Sq. Foot Total
	9	Math Classrooms			900	8100
	9	Storage, Material			75	675
		Teacher Planning			105/400	505
	9	Math Classrooms			900	8100
	9	Storage Material			75	675
	9	Teacher Planning			505/69	574

VI. Special Considerations

(1) **Heating/Cooling/Ventilation**

Standard

(2) **Acoustical**

Standard

(3) **Floor**

Standard

(4) **Walls**

Standard

(5) **Ceiling**

Standard

(6) **Lighting**

Fluorescent with variable light intensity, etc., control

(7) **Windows**

Exterior windows above eye level for natural light and ventilation. Shades/blinds are needed for AV equipment use.

(8) **Doors**

Standard

(8) **Water**

None

(10). **Communications**

Intercom to each room and teacher planning area. Clock in each room and teacher planning area. Wiring for MATV.

(11). **Electrical**

Two 110 duplex wall outlets on each wall in classrooms. Math lab to have 110 duplex outlets every 6 feet around wall. 110 duplex drop from ceiling - 2/3 distance from front of room, for AV purposes.

(12). **Gas and Air**

N/A

(13). **Safety**

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(14). **Fencing**

N/A

(15). **Service Drives**

N/A

(16). **Parking**

N/A

(17). **Built-ins**

A. Built-in work counter

Built-in Work/storage space: Counter along one wall of the classroom with cabinets above and below with adjustable shelves. Counter should be 24" deep. Cabinets should have locks for equipment.

storing

B. Built-in cabinets/shelving

Built-in storage: Each classroom should have 20 linear feet of adjustable shelving. Bookshelves on two walls, 12' long, 6' high. 15" deep, adjustable shelves to teacher planning

area.

C. Build in Instructional Aids

32 linear feet of whiteboard in each classroom and with map rails. AV screen mounted at front of each classroom.

(19). **Other Considerations**

Teacher planning area should contain an area for hanging coats and other personal items.