

## MIDDLE SCHOOL INSTRUCTIONAL FORM

Area: Science

Steven Rinck (Chairman)

### **I. Program Philosophy**

See District's Philosophy

### **II. Program Goals**

1. To develop high levels of knowledge and skill in the science disciplines.
2. To be able to plan and carry out investigations by asking rigorous, significant questions designed to probe for unbiased truths.
3. To be able to apply the scientific method when solving problems by developing suitable hypotheses, experiments, and conclusions.
4. To apply basic science skills of observation, classification, communication, measurement, prediction, and inference in seeking truths about the world and universe.
5. To be able to understand the core concepts of the physical, earth/space, and the biological sciences as components of an integrated, natural system.
6. To appreciate the interactive nature of science, the environment, technology, and society. With this perspective and their natural curiosity.
7. To be able to use their knowledge and skills to examine and resolve critical and ethical issues facing the global community.

### **III. Program Activities**

Teacher Activities:

1. Directing individualized instruction.
2. Organizing and directing laboratory experiences.
3. Selection and presentation of audio-visual aids.
4. Selection of supplemental material.
5. Lecturing
6. Directing, discussion.
7. Testing and evaluating
8. Teacher demonstration
9. Counseling with students and parents.
10. Coordinating individualized research

Student Activities

1. Preparation
  - A. Organization of laboratory materials
  - B. Studying
  - C. Checking reference material
2. Participation
  - A. Laboratory experiences
  - B. Viewing films and filmstrips
  - C. Working individually in self instruction
  - D. Class Discussion
  - E. Field Trips
3. Grouping

**IV. Organizational Nomenclature**

Teacher-Student Ratio: 1:25  
 Total No. of Teachers: 9  
 Total No. of Aides: N/A

Student Capacity Per Period: 30  
 Hours Per day Space will be used: 7  
 Grade levels or Age levels for which program is intended: 6-8

**V. Facilities List**

Fish Code	No. of Areas	Description of Area	No. of Staff Per Area	No. of Students Per Area	No. of Students Total	Net Sq. Ft. Per Unit	Net Sq. Ft. Total
027	0	Demo Classrooms				0	0
809	0	Storage, Material				0	0

**VI. SPECIAL CONSIDERATIONS**

- (1) **Heating/Cooling/Ventilation**  
Heating and Cooling in all areas.
- (2) **Acoustical Standard**
- (3) **Floor**  
Vinyl tile to help control dust levels
- (4) **Walls**  
Concrete block with epoxy paint for easy cleaning
- (5) **Ceiling**  
Acoustic tile to retard water damage
- (6) **Lighting**  
Fluorescent lighting, recessed with variable light intensity capability control.
- (7) **Windows**  
Should have blinds / shades for AV needs. At least 72ft. of window space could be provided on at least one wall.
- (8) **Doors**  
Standard on each room
- (9) **Water**  
Eight (8) sinks built into counters along two walls and one sink at demonstration table. Emergency shower and eyewash in each room. Sinks should be equipped with clay traps, goose neck spouts, and acid resistant. Drains should be acid resistant. One sink in each material storage area.

**Area: Science**

**(10). Communications**

Two-way intercom to each science room and to each teacher planning area. Include wiring for MATV.

**(11). Electrical**

Locate electrical clock in each science classroom and teacher planning area. Eight electric outlets to be placed along each built-in counter top. At least two electric outlets to be placed on each wall perpendicular to built-in counters.

**(12). Gas and Air**

N/A

**(13). Safety**

Each science room to have eyewash and shower. Floor drain, If possible, Fire blanket, fire extinguisher and goggle sanitizer should be in each room

**(14). Fencing**

N/A

**(15). Service Drives**

N/A

**(16). Parking**

N/A

# SCIENCE

