

Independent School District 196
Rosemount-Apple Valley-Eagan Public Schools
Educating our students to reach their full potential

Series Number 608 Adopted January 1987 Revised March 2004

Title Computer Curriculum Mission and Goals

1. Mission

- 1.1 Computers are making the largest impact on society since the printing press. We believe a computer is a tool to be used in addressing the full learning spectrum needed for success. The use of this technology will reinforce and promote learning levels from skills, attitudes and knowledge to application, synthesis and evaluation. Therefore, it becomes a school district's responsibility to equip students, staff and citizens with necessary tools and skills to successfully meet this need.
- 1.2 Increasingly important aspects of today's education include several key components concerning computers.
 - 1.2.1 The student will understand the importance of the historical and ethical aspects of computer usage.
 - 1.2.2 The student will be taught the appropriate concepts necessary for the correct operation and maintenance of computers along with an appreciation for the architecture of the computer.
 - 1.2.3 The student will be given an awareness of programming languages and an opportunity for mastery.
 - 1.2.4 The student will learn the appropriate applications of computers.
- 1.3 To provide the best computer education for all students, District 196 must have a commitment to implement, evaluate, and continually monitor and adjust the computer education program.
- 1.4 We reaffirm the belief stated in the District 196 1978 long-range plan:

We expect that computer instruction and computer-assisted CRT equipment and materials will become standard educational tools. . . . Use of computers must be a part of any educational curriculum.

2. Goals

- 2.1 **The student will understand the development of computers.**
 - 2.1.1 The student will know the machines that aided in the development of today's computers.
 - 2.1.2 The student will understand the current use of computers.
 - 2.1.3 The student will understand how current technology may influence future uses of computers.
- 2.2 **The student will apply proper ethics in the use of computers.**
 - 2.2.1 The student will understand ethical computer use.
 - 2.2.2 The student will understand the impact of computers on society.

2.3 The student will apply the skills required to operate computer systems.

- 2.3.1 The student will know the procedure to start a computer system.
- 2.3.2 The student will understand the operating system of the computer.
- 2.3.3 The student will apply keyboarding skills.
- 2.3.4 The student will apply operating knowledge of computer peripherals.
- 2.3.5 The student will apply appropriate maintenance procedures.

2.4 The student will understand the architecture of a computer system.

- 2.4.1 The student will know the terminology of the structure of computer systems.
- 2.4.2 The student will understand the four elements of all computers.
- 2.4.3 The student will understand the peripherals used with computers.
- 2.4.4 The student will know the various types of number systems.

2.5. The student will apply the appropriate application program to solve problems.

- 2.5.1 The student will apply a spreadsheet program.
- 2.5.2 The student will apply a word processing program.
- 2.5.3 The student will apply a data base management program.
- 2.5.4 The student will apply a graphics package.
- 2.5.5 The student will understand the use of a music generation package.
- 2.5.6 The student will appreciate recreational computing.
- 2.5.7 The student will apply a communications program.

2.6. The student will apply programming language concepts to solve problems.

- 2.6.1 The student will apply logical thinking skills to solve problems.
- 2.6.2 The student will understand the uses of computer languages.
- 2.6.3 The student will understand the elements of computer languages.
- 2.6.4 The student will apply the elements of a computer language in using techniques of structured program design.