Subject: Computer Science	Calendar: 1st six weeks	Timeframe:	Level/Grade: High School

Unit Name

Unit Objectives:

- Introduction to Windows Operating System.
- Computer fundamentals: Historical background of computer development, ethical use of the computer, internet resources.
- Computer fundamentals: computer architecture, internal data representation
- Introduction to MS/DOS operating system
- C++ (IDE); program development; good programming habits
- Writing First C++ programs

Activity Type: Online tutorials, workbooks	TEKS:
Materials: Computer Science text and handouts	

SE Modifications:	Resources: Computer Science text and handouts

GT Modifications:	Evaluation Methods:

Subject: Computer Science	Calendar: 2nd six weeks	Timeframe:	Level/Grade: High School

Unit Name

Unit Objectives:
- Variables using simple data types
- Operations and expressions using simple arithmetic operators
- Arithmetic operators and expressions, continued
- Introduction to library classes using apstring
- Introduction to classes
- Constants / Introduction to Modular programming using functions

Activity Type: Online tutorials, workbooks	TEKS:
Materials: Computer Science and C++ text	

SE Modifications:	Resources: Computer Science and C++ text

GT Modifications:	Evaluation Methods:

Subject: Computer Science	Calendar: 3rd six weeks	Timeframe:	Level/Grade: High School

Unit Name

Unit Objectives:
- Return Functions without parameters
- Void Functions without parameters
- Void Functions with Value Parameters
- Void Functions with Value and Reference Parameters
- Control Structures: Conditional (if and if..else)
- Control Structures: Conditional (switch)

Activity Type: Online tutorials, workbooks	TEKS:
Materials: Computer Science and C++ text	

SE Modifications:	Resources: Computer Science and C++ text

GT Modifications:	Evaluation Methods:

Subject: Computer Science	Calendar: 4th six weeks	Timeframe:	Level/Grade: High School

Unit Name

Unit Objectives:
- Control Structures: Repetition (for)
- Control Structures: Repetition (while)
- Control Structures: Repetition(do.while)
- Control Structures: Nested Repetition
- C++ Data Structure: the Text File
- C++ Data Structure: the Text File

Activity Type: Online tutorials, workbooks	TEKS:
Materials: Computer Science and C++ text	

SE Modifications:	Resources: Computer Science and C++ text

GT Modifications:	Evaluation Methods:

Subject: Computer Science	Calendar: 5th six weeks	Timeframe:	Level/Grade: High School

Unit Name

Unit Objectives:
- C++ Data Structure: 1D Array with apvector
- C++ Data Structure: 1D Array with apvector
- C++ Data Stucture: 2D Array with apmatrix
- Algorithms: Quadratic Sorting techniques
- Algorithms: Quadratic Sorting techniques
- Algorithms: Linear and Binary Searching techniques

Activity Type: Online tutorials, workbooks	TEKS:
Materials: Computer Science and C++ text	

SE Modifications:	Resources: Computer Science and C++ text

GT Modifications:	Evaluation Methods:

Subject: **Computer Science**	**Calendar:** **6th six weeks**	**Timeframe:**	**Level/Grade:** **High School**

Unit Name

Unit Objectives:
- C++ Data Structure: the Record with *struct*
- C++ Data Structure: the Record
- C++ Data Structure: the Record implemented with *class*
- Graphical Output
- Graphical Output

Activity Type: **Online tutorials, workbooks**	**TEKS:**
Materials Computer Science and C++ text	

SE Modifications:	**Resources: Computer Science and C++ text**

GT Modifications:	**Evaluation Methods:**