



1st-12th Grade Computer Teacher and Secondary Math Teacher

Philosophy

We believe that technology is the God-given process of exploring and developing creation in response to the cultural mandate (Genesis 1:28). Works of technology reflect their designers in the same way that we reflect our Creator. Technological works such as computers may be valuable tools for the accomplishment of the tasks to which God calls us.

We believe that it is important for all of God's children to understand and embrace the wise and stewardly use of technology. To effectively utilize the tools available to us, we must understand computing methods and develop the ability to learn and respond to changes in our technological environment. By learning about and using our technical abilities, we praise our God, Who has endowed us with these capabilities.

Overview

Our goal is that all of our students will have opportunities to use computers and technology as tools for learning, both in their classrooms and in an instructional lab environment. Our program includes weekly 30 to 40-minute computer classes for preschool through sixth grade. The elementary classes have a strong focus on using computers as an extension of their classroom learning. For instance, preschool students play educational games designed to reinforce their English language skills including colors, numbers and alphabet letters and sounds. In the elementary grades, we continue using educational games to reinforce classroom concepts, and also start to introduce computer-specific skills such as keyboarding, word processing, and use of presentation tools, spreadsheets, and other productivity software. We have adopted the use of Google Apps and are also teaching our students how to use Microsoft Office and Open Office.

We have several semester-long computer electives that we offer to middle school and high school students; these classes meet daily for a 50-minute period for 1 semester. Computer Applications is required for the first semester of seventh grade. Other elective classes include Web Design and Coding. We have also offered Coding and App Development, Raspberry Pi Robotics, and others.

The Computer and Math Teacher is responsible to teach weekly classes for 1st-6th grade and two daily secondary elective classes each semester. We also need the person in this position to teach two secondary math classes.

Qualifications

- 4-year degree in Computer Science, Technology Education or related field
- Teaching certification and 2 years experience preferred (but not required)
- Evangelical Christian testimony with active local church experience
- Creativity, attention to detail, good interpersonal skills and excellent organizational abilities
- Sense of calling to teach in a developing nation
- Willingness to make a three (or more) year commitment
- Full fluency and expertise in English; conversational Spanish preferred (willingness to learn is a must)

Sample Schedule

Although the actual schedule will be created later, a sample schedule follows.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:28-8:18	Algebra 1				
8:21-9:11	Algebra 1				
9:30-10:15		Pre-K 1	Pre-K 2		Kindergarten
10:19-11:09	MS Electives: Coding/Web (s1) Comp Apps (s2)				
11:09-11:39	Lunch	Lunch	Lunch	Lunch	Lunch
11:39-12:29	HS Electives: Coding/Web (s1) Video Prod (s2)				
12:45-1:20	5 th grade		4 th grade	1 st grade	
1:30-2:15		2 nd grade		6 th grade	3 rd grade

Curriculum

Although we do not have an official purchased curriculum, the program is fairly well developed. Major instructional components for elementary students include learning games, typing, coding, and development of skills in office productivity applications. We would like to develop and implement a more standards-based curriculum for the use of technology at all levels.

Elective Classes

Computer Applications: Students will be introduced to many aspects of school and business computing. Students will learn and practice skills in the use of a word processor, slideshow presentation, spreadsheet, and internet concepts. They will complete projects to reinforce learned skills and be able to apply these skills to their work in other classes and in the future. In addition, class time will be devoted to computer ethics and how technology affects our culture. Required for 7th grade students.

Web Design: Students learn the basics of HTML and JavaScript to create functional web sites. Grading will be based on weekly computer assignments, quizzes, class presentations and the final project, a fully operational web site ready to post on the Internet.

Coding: Students will use the CodeHS online learning platform to learn the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Specific studies will include control structures, methods and parameters, primarily using Java and JavaScript.

Video Production: Students will learn various techniques of editing digital video and producing video projects. Most projects will be done in groups where students will use various objectives, styles, and effects learned in class. Projects may include video slideshows, short event videos, commercials, documentaries, and a music video.

Other Electives: If the teacher has an interest in developing additional technology-related electives, the school would be very open to considering offering alternatives to one or more of the above electives.

Resources

We have two computer labs. The main computer lab has 30 computers, and the smaller adjoining computer lab has 24 computers. All school computers are running Windows 10 and Microsoft Office. There is also a set of 40 Chromebooks that is stored in the library and frequently checked out for classroom use. Our school has a 60Mbps internet connection shared for the whole campus. There are approximately 160 computers on our campus including office and classroom computers.

We also have a full-time educational technology specialist who provides hardware and software support, administers the network, and carries out other support roles for technology, and a full-time lab supervisor and network administrator.

Other Responsibilities

The computer teacher needs to be available to assist classroom teachers with special projects conducted in the computer lab. In addition, the teacher will be assigned times to supervise the

computer lab and assist students who are given permission to work on tasks independently in the lab, as well as to help with part of the computer lab supervision needs before school, during lunch and after school. Finally, the computer teacher should periodically teach technology classes to staff.