



STEM Lab

Pine Middle School

Smart Lab Facilitator: Mrs. Mary Young M.Ed

School Phone: 689-2550 room 108

E-Mail: myoung@washoeschools.net

Website: <http://www.washoeschools.net/myoung>

Online Learning Launchers: <http://ll.creativelearningsystems.com>

- login = pine, password = learn 20

Lab Fee: \$10.00 (This covers the basic consumable supplies for the lab such as: printer toner, ink, glue, batteries, replacement equipment, and all the other little items that are used in the lab.)

Course Description:

The STEM Lab course is a semester long elective class provided to 6th, 7th and 8th grade students at Pine Middle School. The Pine Middle School STEM SmartLab is a **state-of-the-art learning environment** designed to **empower self-directed learners** with the tools, resources, simulation, and freedom necessary to foster the development of their creativity, critical thinking, problem-solving, and teamwork skills.

STEM Lab Learning Priorities – 21st Century Competencies:

- Collaboration and Teamwork
- Knowledge Construction (Problem Solving and Creativity)
- Real World Problem Solving and Innovation
- Use of Technology for Learning
- Self-Regulation (Project Planning and Time Management)
- Skilled Communication and Documentation of Learning

Course Schedule:

Students will select and engage in one of the following learning experiences approximately every two weeks throughout course.

Alternative and Renewable Energy	Circuitry	Computer Graphics
Digital Communications	Mechanics and Structures	Robotics and Control Technologies
Scientific Data and Analysis	Software Engineering	

Primary Methods of Instruction- What to Expect in Tech of Science

- Students work with a partner on a series of rigorous hands-on engagements, and your grade will be based on individual participation.
- Students will be required to read and research a variety of instructional materials in order to accomplish their learning objectives.
- Students will be using a presentation software to create multimedia presentations, which will be presented to the class at throughout the semester.
- **Students will be using Microsoft TEAMS and or Google Classroom**
- Students will create an electronic portfolio including a Weebly website to host their work.
- Students and their partner will rotate stations about every two weeks.
- Students will be expected to take pictures, videos, and/or screen-shots to keep evidence of what they work on **every day**. Digital cameras will be used to document your progress.
- At the end of each learning engagement, each individual must complete a self-evaluation form.
- Students will be expected to keep daily notes on their website blog page.
- Students can assess the curriculum on line at <http://ll.creativelearningsystems.com> login = pine and the password = learn20

Internet Usage, Media Release, and Permission to post your work on line

You must have a Technology/ Acceptable Use Agreement (see pages 17-19 in the WCSD Parent/Student handbook) and media release (see page 49 in the WCSD Parent/Student handbook) signed by your parent/guardian on file in Infinite Campus (this was done at registration), before you will be allowed on the Internet. Basically, this document says that Internet use is to be used for educational purposes only. If you are searching non-educational sites you may lose your privilege to use the Internet in the classroom. You also must use proper network etiquette – no cyber bullying among other things. In addition, you will need to return the signed permission to post form to me by the due date. This form allows you to create a website to post your work and your picture. If you have any questions, please see me. I have a copy of the Technology/ Acceptable Use Agreement if you would like to see it before you sign this document.

Failure to cheerfully follow and apply these principles or any of the facilitator’s instructions may result in being withdrawn from the course and permanent loss of access to the STEM Lab resources.

Grading

Parents will be informed of their child’s progress through the Infinite Campus Parent Portal. Grades are based on the following weighted categories. Daily participation and productivity can be proven through your daily pictures, videos, and/or screen-shots saved to your file, as well as your daily journals.

Daily Classroom Participation <ul style="list-style-type: none">• Participation, Productivity, Daily notes<ul style="list-style-type: none">○ 10 points a day• Project Plans - 30 points	50%
Assessment <ul style="list-style-type: none">• Power Points and Presentations - 100 points	50%

In the event of unsatisfactory performance, notices will be sent mid-quarter; official report cards will be distributed quarterly.

Student Attendance

This class is an activity-based learning experience, which means that on-time attendance and productive participation are critically important to being successful. **If you are absent you must make up the time you miss. You will not earn your 10 points for that day if you are absent, unless you make up the work.** Since the activities are hands on and utilize equipment that may or may not be available at home, the work must be made up in class if it cannot be made up at home. See the student assistance section for makeup times. Pine Middle School attendance/tardy policies are enforced. Please make an appointment with me to make up your work.

Student Assistance

If additional time is required to meet course objectives, or a student needs to make up time they were absent, students will be offered extra access to the STEM Lab lunch-with an appointment, and/or after school. Arrangements for additional time must be made by appointment through Ms. Young.

Parental Assistance

Student planners and websites:

- Parents are to check their child’s websites on a regular basis to view their daily notes and project plans. Students will also write the presentation due dates in their planner.
- E-mail Mrs. Young for any questions and concerns: myoung@washeoschools.net

Please sign and return this page to Mrs. Young by Due Date: _____

This document and form are also available on line at <http://www.washoeschools.net/myoung>

Student Name: _____

Period: _____

We (Student & Parent/Guardian) have read and understand the information in this disclosure. We know that if we have any further questions, we can contact Ms. Young by calling 689-2550 (room 108) or by emailing her at **myoung@washoeschools.net**. We also understand that this class is an activity-based learning experience, which means that on-time attendance and productive participation are critically important to being successful. This time must be made up if you are absent. Pine Middle School attendance/tardy policies are enforced.

We also understand that the equipment in the STEM Lab is small, fragile, and/or in some cases very expensive. If by some chance the equipment is lost, broken, or damaged due to inappropriate behavior and/or negligence; we will be responsible for repair or replacement costs.

Student Signature

Parent/Guardian Signature

Date

Date

Media Services Consent and Release Form

The **Pine Middle School** is seeking your approval to:

Use your child’s photograph, digital video, and multimedia products on classroom, school, or special project websites for educational purposes. On occasions we have them use their school e-mail to sign up for accounts to use certain online applications Some of the applications we use but not limited are:

- Internet, Blogs/Wikis, etc. (Online journaling, collaborative work), Audio/Video files (voice recordings, videos, podcasts), Presentations, **Google Classroom and or Microsoft TEAMS, Weebly, Tinkercad, Stencyl Game Design, SketchUp, Scratch, Kodu, SeeSaw, Prezi.**

I (the undersigned), _____, (please print)

or parent/legal guardian of _____, (please print)

hereby authorize the **Pine Middle School** to use my child’s photograph, digital video, and multimedia products on classroom, school, or special project websites (internet) for educational purposes.

Signature (if 18 or older) _____

Signature of parent/legal guardian _____

Date _____