

Hello 5th Graders and Families! Welcome to STEAM! We will meet in the STEAM lab once a cycle. In STEAM this year, we will be doing a variety of hands-on projects that will require you to think outside the box, be problem solvers and work through challenges. Here is a brief overview of some of the projects we will be working on:

Quarter 1: **Getting Started**

- Working in the STEAM lab
- What is STEAM?
- Navigating the Chromebook
- Brain Games- Tangrams, Puzzle Cubes, A Little Motivation
- Air Skimmers

Quarter 2: **3D Printing**

- You will learn how to use CAD (Computer Aided Design) software to create items to be 3D printed. We will design things like keychains, bookmarks, pens and anything of your choosing! Anything you make is yours to keep!

Quarter 3: **Robotics**

- You will learn how to code 3 different types of Lego robots. We will program our robots to be able to move, make turns, sense colors and objects, lift objects up and put them down and navigate through obstacle courses and mazes.

Quarter 4: **Drawing and Design for Production**

During this quarter we will use our Cricut machines to make vinyl cut stickers! We will apply the principles of design to our work to create stickers for both ourselves and our teachers!

**Please note- this schedule is subject to change based on class size and need. All students will experience the same curriculum by the end of the school year. They may just complete projects at different times based on availability of materials.

STEAM Lab Expectations:

- Students **MUST** come to class with a charged Chromebook.
- When you enter class, please immediately be seated in your assigned seat, check the **DO NOW** posted on the board for directions on what you should be doing to get ready for class.
- Please treat all equipment with respect. I know things happen so if something breaks, please let me know right away so I can fix it.
- No eating or drinking near equipment.
- Return all borrowed materials to their home location at the end of the period.

Health and Safety:

- You will be assigned a seat. Please remain seated unless we are doing an activity that requires you to move around the room, and you have been given permission to do so.
- Do not touch equipment or materials being used by someone else. This includes their Chromebook, mouse, keyboard, screen or any piece of equipment at their desk.
- Line up outside of the STEAM Lab in a single file line. You will be invited into the Lab when I am ready for you. Sometimes I just need an extra minute or 2 to prepare materials for your class.
- You must use a pass when leaving the room.
 - Pink- Bathroom
 - Yellow- Main Office
 - Green- Guidance Office

Grading Policy:

STEAM is an experiential class. I am more concerned with the PROCESS you take rather than the PRODUCT. You will be graded based on your effort and work ethic, not by the finished project you complete.

If you come to class everyday, try your hardest, follow directions, learn from your mistakes and ask for help when needed, you will receive a 100% on all assignments!

Contact Information:

I can be reached via telephone at (845)534-8009 ext 4241 or by email mschweizer@cornwallschools.com

Google Classroom Codes:

Cameron HR: jibg3fd	Hoeffner HR: 6zkq4ws
Young HR: nvu2uyz	Cassel HR: 7zyxtnd
Lewis HR: iecison	Sabini HR: mrm5j7z
Malings HR: seemas7	Briscoe HR: l33cuvw
Borland HR: x56xxvi	Feyen HR: sxvl7dn

This is going to be an amazing year! I am so very excited to learn and grow with you.