TITLE: INTRODUCTION TO p5.js

DEVELOPED BY:  **Jerusha, Patti & Sarani**

| General Overview - Unit Description APPLICABLE GRADE(S): **6th, 7th and 8th.**  TOTAL NUMBER OF LESSONS: **10**  FORMAT: **Project Based Assessments & Summative and Formative Assessments** |
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| Motivation for Unit: Our decision to create this unit was to…. and develop a lesson that is ready to be implemented.  **\* Note: We have this statement somewhere right?** |
| NY State Computer Science Standards:  4-6.CT.1 Computational Thinking, Modeling and Simulation  **\* Note: Add standards as lessons are built.** |
| Tools Used: PROGRAMMING LANGUAGE: **p5.js**  PROGRAM ENVIRONMENT(S): **p5.js IDE LINK:** [**https://editor.p5js.org**](https://editor.p5js.org)  ADDITIONAL MATERIALS:  **\* Note: Add as lessons are built.** |
| Resources: **INSTRUCTIONAL LINKS:**   * <https://p5js.org> * <https://p5js.org/reference/> * <https://p5js.org/examples/> * <https://www.codecademy.com/learn/learn-p5js/modules/p5js-introduction-to-creative-coding/cheatsheet>   **VIDEO LINKS:**   * <https://www.youtube.com/watch?v=yPWkPOfnGsw&list=PLRqwX-V7Uu6Zy51Q-x9tMWIv9cueOFTFA&index=1&t=0s> * <https://www.youtube.com/watch?v=MXs1cOlidWs> * <https://www.youtube.com/watch?v=c3TeLi6Ns1E&list=PLRqwX-V7Uu6Zy51Q-x9tMWIv9cueOFTFA&index=4> * <https://www.youtube.com/watch?v=riiJTF5-N7c&list=PLRqwX-V7Uu6Zy51Q-x9tMWIv9cueOFTFA&index=5> * <https://www.youtube.com/watch?v=LuGsp5KeJMM&list=PLRqwX-V7Uu6Zy51Q-x9tMWIv9cueOFTFA&index=6> * <https://www.youtube.com/watch?v=LuGsp5KeJMM&list=PLRqwX-V7Uu6Zy51Q-x9tMWIv9cueOFTFA&index=6>   BOOKS: **N/A?**  ARTICLES: **N/A?**  **\* Note: Add as lessons are built.** |
| Lesson Details: ANTICIPATED DURATION: **10 Weeks**  **LESSON TABLE OF CONTENTS:**  **\* Note: Working titles... Augment as needed.**  **WEEK 1: Introduction to Graph Based Design (Unplugged Activity)**  WEEK 2: Introduction to p5.js Possibilities & Interface of p5.js IDE  **WEEK 3:** **Plotting Shapes in the P5 Editor**  WEEK 4: Introduction to Digital Colors  **WEEK 5:** **Introduction to Color Theory & Application**  WEEK 6: Introduction to Shape Development with p5.js  **WEEK 7: Introduction to Shape Layering & Augmentation with p5.js**  WEEK 8: HTML & CSS Review, Integration & Culminating Project  **WEEK 9: Project Lab Day 1: Recap Expectations, Tricks, Tools and Reminders**  WEEK 10: Project Lab Day 2: Peer to Peer Support/Feedback & Gallery Walk |
| Assessments SUMMATIVE:  FORMATIVE:  **\* Note: Add as lessons are built… QUESTION: Will we reference the location of the differing assessments in each lesson by page or just list differing assessment types that can be found in the lesson?** |