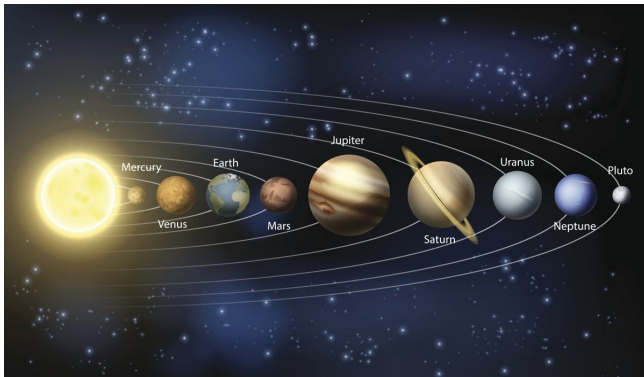# vidcode Creative Science

In the Vidcode Creative Science curriculum students will learn advanced programming concepts with a focus on cross-promoting material from traditional science curriculum and learning JavaScript coding through the Vidcode platform. One of the most common cross-curricular benefits of computer programming in the sciences, is that the students get to engage with the material as creators of information, not just consumers of it. Following the Creative Science curriculum students will creatively engage with science and programming concepts to create their own expression of knowledge.

FORMAT

Vidcode is a project-based web curriculum with year long courses that are delivered in units. Our courses are developed in cohesion with one another, and as stand-alone environments. The projects in this course review previously learned concepts and introduce new ones through open-ended projects.

WHO IS THIS FOR?

The Vidcode Creative Science course is an opportunity for students to learn and think critically about the word and the world while learning JavaScript.

LEARNING OBJECTIVES

In the Vidcode Creative Science curriculum students will learn advanced programming concepts with a focus on integrating the use of programming in an integrated science learning experience.

10 hours

Topic 1:Coding Models of Our Solar System
Example Activity:

Programming Concepts:

● Built-in methods
● Shape Elements
● x-y grid

Programming Concepts:

● JS video programming
● Repeat blocks
● Logical operators

Topic 2: Create Your Own Planet!
Example Activity: Design the flaura and fauna of your planet. Using the programming concepts you've learned create a world with living things and an eco-system