

**AP CSP Python with CodeX
Mission 3 Assignment**

Name:

Getting Started

This Mission will light up those pixels in full color! You will also learn how to vary the speed of the color change. Your CodeX has 4 RGB LEDs along its top edge. You can set these LEDs to any color. Review the mission reminders. Then go to Mission 3 and get started.

Mission 3 : Light Show Objectives

Complete Objective 1
Read ALL the information. Take notes in the space provided.
What does RGB stand for?
What are the 8 pre-defined colors mentioned so far?
What are the numbers of the pixels?

RGB stands for Red, Green, Blue.

The pre-defined colors mentioned are: BLACK, WHITE, RED, GREEN, BLUE, YELLOW, CYAN, MAGENTA, ORANGE and BROWN

The pixels are numbered 0, 1, 2, and 3.

Complete Objective 2
Read ALL the information. Take notes in the space provided.

Space for notes as needed

Complete Objective 3
Read ALL the information. Take notes in the space provided.
What does “sequentially” mean?

The computer executes code sequentially, meaning it starts with the first line, then the second, and so on.

Complete Objective 4
Take notes in the space provided.

Space for notes as needed

Take the quiz. **How did you do?**

Answers will vary

Complete Objective 5
Take notes in the space provided.
What does the CodeSpace debugger let you do?
When does each line of code run?

The CodeSpace debugger lets you step your program one line at a time, at your own speed, so you can understand exactly what the computer is doing and debug your code.

Each line of code runs **after** the Step button is clicked.

Complete Objective 6
Take notes in the space provided.

Space for notes as needed

Complete Objective 7
Take notes in the space provided.

Space for notes as needed

Complete Objective 8
Read ALL the information. Take notes in

A literal is an actual number or value, like 1.

A variable is a name to which you assign some data. The data could

<p>the space provided.</p> <p>What is a literal (or <i>literal number</i>)?</p> <p>What is a variable?</p> <p>Give an example of defining a variable:</p> <p>Use CodeTrek to help you with the code.</p>	<p>be a number, a color, or any other type of information your program uses.</p> <p>delay = 1</p>
<p>Take the quiz. How did you do?</p>	<p>Answers will vary. Review as needed.</p>
<p>Complete Objective 9</p> <p>Read ALL the information. Take notes in the space provided.</p> <p>Use CodeTrek and the Hints to complete the program.</p>	<p>Space for notes as needed</p>
<p>Submit the completed Pixels1 program to the teacher.</p>	