AP Computer Science Principles Week of 18 May – 25 May 2020

Teacher/Team: If there are any questions, please feel free to email me/us at: (*Email Address of the Teacher* Link to TEAMS Folder Previous Lessons: Link to: (*Resources*).	cornettj@lpisd.org AP Computer Science Principles Codehs.com

Objectives

Objective / I Can:
In this lesson, students will learn how computers break down images into concrete values that can be stored. Students will learn how images are represented digitally using pixels.

Objective

Students will have a basic understanding of how we can encode images as data.

Enduring Understandings

This lesson builds toward the following Enduring Understandings (EUs) and Learning Objectives (LOs). Students should understand that…

- EU 1.2 Computing enables people to use creative development processes to create computational artifacts for creative expression or to solve a problem. (LO 1.2.3)
- EU 1.3 Computing can extend traditional forms of human expression and experience. (LO 1.3.1)
- EU 2.1 A variety of abstractions built on binary sequences can be used to represent all digital data. (LOs 2.1.1, 2.1.2)
- EU 2.2 Multiple levels of abstraction are used to write programs or create other computational artifacts. (LO 2.2.3)
- EU 3.2 Computing facilitates exploration and the discovery of connections in information. (LO 3.2.1)
- EU 5.3 Programming is facilitated by appropriate abstractions. (LO 5.3.1)

Activities

Student Activities: (Resources, videos for students to use.)

Go to Teams Folder. Look for the assignment:

1. 9.4.1 Pixel Images
2. 9.4.2 Pixel Images Quiz
3. 9.4.3 Creating Pixel Images
4. 9.4.4 CodeHS Logo
5. 9.4.5 Checkerboard
6. 9.4.6 Ladder
7. 9.4.7 Create an Image!

Academic/Instructional Support

Schedule:	Teacher Support - TEAMS Office Hours: 8 – 12 Email: cornettj@lpisd.org
Office Hours	

To Be Graded

Assignment for students to submit to TEAMS Folder:

- 9.4.2 Pixel Images Quiz
- 9.4.5 Checkerboard
- 9.4.6 Ladder
- 9.4.7 Create an Image!

When is it due? 22 May 2020

- 9.4.2 Pixel Images Quiz
- 9.4.5 Checkerboard
- 9.4.6 Ladder
- 9.4.7 Create an Image!

How will it be submitted?

Electronically, except by individual arrangement.