

# Introduction to Coding

**Do Now** Silently and Independently answer the following questions:

1. What is **coding/ computer science/computer programming**? What do you think it is?

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2. Why do you think it is useful?

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**Ms. Paredes Class Expectations** Give an example of each:

R = Respectful

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E = Engaged

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A = Accountable

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D = Determined

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Y = Your Personal Best

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## **Restroom Policy**

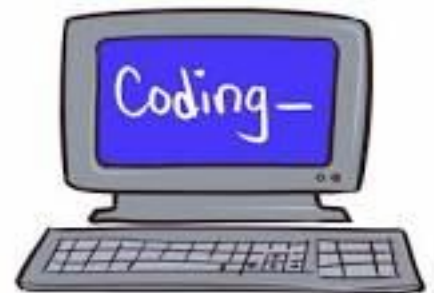
1. What is the restroom policy?

## **Projects**

1. How many projects will you have for semester 1?

## **Programs**

1. What programs will we be using in class?



Name: \_\_\_\_\_

Period: \_\_\_\_\_

**Video #1 Questions:**

<p>1. When did Krish become interested in coding?</p>	<p>2. What has he been able to do with coding?</p>
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**Video #2 Questions:**

1. What are things in real life that use code?

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**Reflection:** In **YOUR OWN WORDS** and complete sentences, explain:

- What is coding?

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- **One thing I am excited about Coding class/would like to learn is ...**

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Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Lesson #1: Binary Numbers

**Objective:** Today I will be able to understand binary code and how to use it.



**Do Now:** SILENTLY and INDEPENDENTLY answer the following question in complete sentences:

What I notice about the number of dots on the cards is that...

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The next card would have \_\_\_\_\_ dots because

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### **Vocabulary:**

- Binary Code : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **Let's Practice:**

Part 1: Code the number into binary code.

Number	Binary Code
5	____ _
3	____ _
12	____ _
19	____ _
23	____ _

Name: \_\_\_\_\_

Period: \_\_\_\_\_

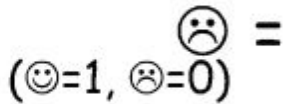
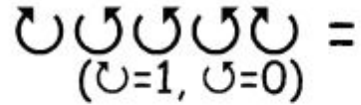
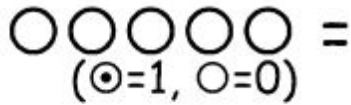
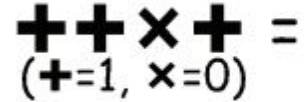
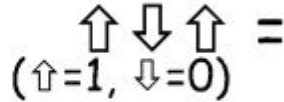
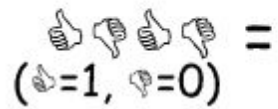
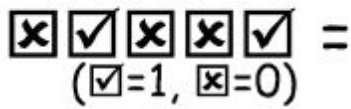
Part 2: Decode the Binary Code into a number

Binary Code	Number
1 0 1 0 1	
1 1 1 1 1	
1 1 0 0 1	
0 0 0 1 1	
0 0 1 0 0	

Part 3: Fill in the following chart

	Number	Binary Code
Write your birthday month number		_____
Your lucky/favorite number		_____
Your age		_____
The number that makes up a dozen		_____
*		0 0 1 1 0
		0 1 1 1 1
		0 1 0 0 1
		1 0 0 0 1

**Part 4:** Independent Practice



**Reflection:** In **YOUR OWN WORDS** and complete sentences, explain:

- What is binary code?
- How does binary code work?
- How is binary code useful?

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**Once you are done, SILENTLY** raise your hand to have your work checked by Ms. Paredes. Once she checks your work, you will grab your assigned laptop and continue working on code.org