Do Now: Answer the following question: What system is the computer by	based on?	
Topic: Binary Main Idea: Working with Binary Numbers		
What is a <i>Binary Number</i> ?		
Recall your standard base10 number: 512		
How do we <i>convert</i> a number in base 2 to base	e 10?	Example: Change 10 in base2 to base10
1 2		
3		
Practice: Change each base2 number to a base 1. 1101		3. 00010101
How do we <i>convert</i> a number in base 10 to base	se 2?	Example: Change 254 in base10 to base2
1		
2.       3.		
Practice: Change each base2 number to a base 1. 126 2. 84		3. 350

Example: Add: 0 1 1 0 1 + 1 0 1 1 1

Topic: Binary

Main Idea: Adding/Subtracting Binary Numbers

How do we **add** two binary numbers?

1.\_\_\_\_\_\_

2.\_\_\_\_\_

3.

a)

b)

Practice: Add the following numbers in base 2:

How do we *subtract* two *binary numbers*?

1.\_\_\_\_\_

2.\_\_\_\_\_

Example: Subtract

Practice: Subtract the following numbers in base 2: