Place Value Used in Real Life: Part 2

What You Will Need:
• Computer, phone, or any device with internet access • Flipgrid account • This is Part 2 of the lesson on how computers parts communicate. This also includes a history of place value. You should spend about 45 minutes on the first part of this lesson, and then another 45 minutes on the history part of the lesson. • Khan Academy account

Review
Review this video that explains about patterns in binary numbers. We noted these patterns in Part 1. Click here for a review.

The Lesson	Practice	Share Your Thoughts
Watch this video to learn how computers use base 2, or binary numbers to communicate. Eight place values is called a BIT, which stands for BInary uniT. Note the vocabulary words: Pixel, Resolution, ASCII, Bitmap, Bit, and Binary. Then complete the worksheet on ASCII. Click here to view the lesson. Youtube Version	Complete the ASCII and Bitmap worksheets. Click here to do some practice. Bitmap Worksheet	Click here to tell me your thoughts and answer my questions Go to the Flipgrid prompt. Use your Flipgrid ID, and respond to the prompt: Explain the relationship between the base number and place values? For example, could you have place value without having a base number? If you don't have an ID, use 12345.

Clarification
Click here for an activity that will help you better understand
Assessment:
Click here to complete an activity that will show me if you met my objective.

Watch the first part of Dr. Lee Stiff explaining the history of place value and number bases.
History of Bases and Place Value: Part 1

History of Bases and Place Value: Part 2

This is the second part of Dr. Lee Stiff's History of Place value and Number Bases. At the end he sings a parody he wrote about number bases.

Choose one of the number systems that Dr. Stiff talked about and try to write a number in that system.