Originally from code.org

- Binary
 - A way of representing information using only two options
 - ON and OFF
- Question: Have you seen the inside of a computer before?
 - O What's in there?
 - Show pictures of the inside of a computer
 - Essentially, a slew of wires
- Wires carry information through the machine in the form of electricity
 - The two options that a computer uses for electrical information are "on" and "off".
 - When computers represent information using only two options, it's called "binary".
- We can say that computers "speak" binary
 - Computers translate the instructions they are given into binary, so that they can 'understand' it, and carry out those instructions.
- Two Options
 - This theme of two options doesn't stop when the information gets to its destination
 - Computers also store information using binary
 - Binary is not just "off" and "on"
 - Hard Disk Drives store information using magnetic positive and magnetic negative
 - DVDs store information using either reflective or nonreflective
- Question: How do we convert these things we store in a computer into binary?
 - Let's start with letters
 - Use the binary decoder key
 - Each spot where you have a binary option is called a "binary digit" or "bit" (for short).
 - Question: Does anyone know what a grouping of eight bits is called?
 - A "byte"