29 September

Computers:

- 4c: How file compression works and how compression affects the quality of the file.
 - reduces amount of bits in data files
 - refer to duplicate sections of information or refer to repeated blocks of information
 - store a dictionary of duplicates along w/ the information stream
 - what types of compression are there?
 - lossy vs. lossless compression
 - lossy removes unneeded information (ie: colors or tones that don't differ beyond a certain threshold in image or audio files)

show a sample tarball along with its checksum; get the original data back; show lossy music file

- 4d: Describe 2 computer-chip based devices, and describe how they are smarter because of the chip and its program.
 - o cars
 - coffee makers (automated start, etc.)
 - heaters (non-mechanical thermostats)
 - irons (automated shut-off)
 - bread machines

_

Digital Technology:

Computer Programming: