Cipher Exercise

I would like you to create a ciphers project that has an abstract cipher class that contains encode and decode methods. I would also like you to extend that class and build Vigenere cipher and Skip cipher classes.

References:

<http://rumkin.com/tools/cipher/> . (list of ciphers)

<http://crypto.interactive-maths.com/affine-cipher.html> (more details on affine)

If you complete this exercise, you may do additional ciphers (good possibilities are Caesarian shift, affine, Columnar Transposition, Cryptogram Solver, Letter Numbers and possible base65, Playfair, rotate).

Another possibility is to write the code to decrypt or "brute force" break the ciphertext. In this case, you would know that the text is at least 20 characters long and is standard written, grammatically correct English. You will need to figure out which cipher was used and what values were used.

If there is extra time, we could look at creating an executable jar file and use version control.