

1. Encipher the message "Math majors have all the fun" using Playfair system with key work "legally."

2. Decipher the message:

YL VK GW GW GB RI MT IN GT PE PN TU KR TS

using the Playfair system with key work "algebra."

3. Encipher the following Charles Dickens quote

"Take nothing on its looks; take everything on evidence. There's no better rule."

using rectangular transposition with key word *major*.

4. Decipher the following message

OHEUE ADTOU TWOLG AOORR OYHEY IIERE NRUOE FTEHR UATTU MNLEE REARN
TRHRW BOVLE PEWRO DFNEE OOSLI NCMOO HOYAS MHNTY DOATR METMT EFNFL
BNAOB L

knowing it was encipher with rectangular transposition with key word *eternal*. Make sure restore spacing between words, capitalization and add punctuation to make it readable.

5. Decipher message

EWJ QQN JFA PTC VPP BEY YAP

using vernam two-tape with keys *Vikings* and *Camelot*.

6. Look on the website for homecoming events at USD. Choose an event that you would be most likely to attend and write that down. I won't make you actually go to the event but consider doing it, it builds school spirit.