

**SEQUENCE TRANSPOSITION CIPHER (100-150 letters)**

Choose a keyword/phrase with 10 letters and a numerical primer of 5 digits. Use the 5-digit primer to form a numerical sequence the length of the plain text. Extend the 5 digit primer by adding successive pairs of digits (i.e., The 1st plus 2nd give the 6th, 2nd plus 3rd give 7th, etc, dropping 10's).

**pt:** THE EARLY BIRD GETS THE WORM.

**Keyphrase:** GUMMYBEARS

**Primer:** 69315

Apply the sequence digits sequentially to the plaintext.

**pt:** T H E E A R L Y B I R D G E T S T H E W O R M  
**SS:** 6 9 3 1 5 5 2 4 6 0 7 6 0 6 7 3 6 6 3 0 9 2 9

Convert the Keyword into a 0-9 sequence and gather the plaintext by assigned sequence number.

G U M M Y B E A R S  
4 9 5 6 0 2 3 1 7 8  
Y H A T I L E E R -  
O R B G R S T  
M D W E  
E  
T  
H

Draw off the cipher text by taking off the columns in order. In this case:

**CT:** Y HOM AR TBDETH IGW LR ESE E RT  
**SS:** 4 999 55 666666 000 22 333 1 77

Draw off the cipher text in blocks of 5. Add the primer at the beginning of the text and provide a check sum digit at the end.

**CT:** 69315 YHOMA RTBDE THIGW LRESE ERT 9.