



U.S. Department of the Interior Bureau of Land Management

CIPHER WHEEL WORKSHEET



Cipher wheels map a different Caesar encryption to each word. This confederate coding system made coded messages safer, and the wheel made decryption faster.

Key Word: BEE (1st word shifts 1, 2nd word shifts 4, 3rd word shifts 4, repeat.) Hint: writing the order number above the words helps you remember which shift you are solving. Fill in the chart.

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | B | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | E | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | E | | | | | | | | | | | | | | | | | | | | | | | | | |

Example. Decode Audrey Hepburn's motivation with a key word BEE.

OPUIJOH MW MQTSWWMFPI, UIF ASVH MXWIPJ TBZT, "M'Q TSWWMFPI."



Practice 1. Decode this quote from Abraham Lincoln, a CAT lover.

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | T | | | | | | | | | | | | | | | | | | | | | | | | | |

VKU BETTER IXHIEH VJKPM YOU T HQQN, THEN HIXG AQWT
MOUTH TGW GTCUG ALL WHNUM.



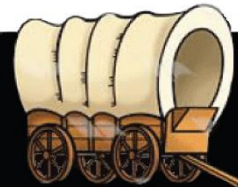
Practice 2. Decode this mapping advise by Lewis and Clark about going WEST.

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 th | | | | | | | | | | | | | | | | | | | | | | | | | | |

XAEJC WIPJ- JWDASFL FXTGL DWREJC XLI XJWWVGE
MH YDWNP CSYV GOF VHNLX.



National Historic Trails Interpretive Center
1501 N. Poplar St.
Casper, WY 82601
307-261-7700
blm_wy_trailscenter@blm.gov



Extra Practice. Decode this quote from a 49er who did not find much GOLD.

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 th | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRR W SZAP IRU OY HC RPE KRPH, GROBK,
OG DZZY DV VUYYOHRK GC ESLE L IGT TCFUSH TE.

Challenge Practice. Write your own coded message. Choose a key word and encode a message. Copy the coded message below and give it to a friend to solve.

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | | | | | | | | | | | | | | | | | | | | | | | | | | |

Key Word:

Message:

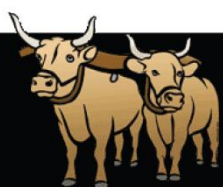
Coded Message:

Fold here and give to a friend to solve.

Hint to solve code:

Coded Message:

| PLAIN | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 st | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 nd | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 rd | | | | | | | | | | | | | | | | | | | | | | | | | | |



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