



Playfair Cipher (Part 2)

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Summary

Notes

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Understanding the rules

Example 1: attack

Digrams: at ta ck

at	ta	ck

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

✦ A new encryption method using rectangles and swapping has been developed for generating cipher text.

▶ 4:28

✦ In order to generate the cipher text, rule number five requires swapping letters in a rectangle formation.

▶ 4:45

Understanding the rules

Example 1: attack

Digrams: at ta ck

at	ta	ck
RS		

M	O	N	A → R	
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S ← T	
U	V	W	X	Z

NESO ACADEMY

✦ Encryption process explained through the use of rectangles and letter substitutions.

▶ 5:37

Understanding the rules

Example 1: attack

Digrams: at ta ck

at	ta	ck
RS	SR	

M	O	N	A → R	
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S ← T	
U	V	W	X	Z

NESO ACADEMY

✦ The encryption of letters in a rectangle pattern is demonstrated and explained in the following text.

▶ 6:13

Understanding the rules

Example 1: attack

Digrams: at ta ck

at	ta	ck
RS	SR	DE

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

✦ Encryption techniques using a keyword substitution method are being demonstrated in a new study.

▶ 6:54

Understanding the rules

Example 1: attack

Digrams: at ta ck

at	ta	ck
RS	SR	DE

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

Plaintext: attack

Digrams: RSSRDE

NESO ACADEMY

▶ 6:59

Understanding the rules

Example 2: mosque

mo	sq	ue
ON		

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

- ✦ In a simple encryption method, the letters "m" and "o" are replaced with "o" and "n," respectively.

▶ 8:19

Understanding the rules

Example 2: mosque

mo	sq	ue
ON	TS	

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

- ✦ In a new encryption method, the alphabet is replaced with different letters based on their position.

▶ 8:52

Understanding the rules

Example 2: mosque

mo	sq	ue
ON	TS	

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

✦ New encryption method discovered for converting letters to cipher text using a wrap-around technique.

▶ 10:08

Understanding the rules

Example 2: mosque

mo	sq	ue
ON	TS	ML

M	O	N	A	R
C	H	Y	B	D
E	F	G	I/J	K
L	P	Q	S	T
U	V	W	X	Z

NESO ACADEMY

✦ In a recent presentation, a new method for encrypting text using a keyword was demonstrated.

▶ 10:29