

## Solutions

### Group 5

Group	5
	plaintext key phrase
Caesar	NATIONLSHIPOBROBOTSJUPITERDANGERPHHEROAAARADIOLOBSTER
Mono	FLOORTEAABAFUSIONILLUSIONALIENTACMANNEFFECTGNOTEBOOK
Vigene	XDCELLRUNIVERSEGRAVITYSCEDOGMOONLIFEBOATPASSAGEIEICE
Polybiu	EY EY REACTORNEDISTANCEEE ZONEMCHKEYQUARTERORGANISMBELL
Freemas	RSUNGALAXYAHONEYBEETBORBITSPCUPSLOUNGETPOSTCARDCHAIR
Magic S	FUELSPACEOBHTURBINEEPLANETHSTARILIGHTIHAMSTERNHEAVEN

		Shift		
Group	5	15	Plain	ABCDEFGHIJKLMNOPQRSTUVWXYZ
			Cipher	LMNOPQRSTUVWXYZABCDEFGHIJK
			phrase	
Plain				NATIONLSHIPOBROBOTSJUPITERDANGERPHHEROAAARADIOLOBSTER
Cipher				YLETZYWDSTAZMCZMZEDUFATEPCOLYRPCASSPCZLLCLOTZWZMDEPC

	Keyword	Keyword used	Alphabet
5	VERTICALNESSES	Plain	ABCDEFGHIJKLMNOPQRSTUVWXYZ
		Cipher	VERTICALNSBDFGHJKMOPQUWXYZ
	phrase		
	Plain	FLOORTEAABAFUSIONILLUSIONALIENTACMANNEFFECTGNOTEBOOK	
	Cipher	CDHHMPIVVEVCQONHGNDDQONHGVDNIGPVRVFGGICCIRPAGHPHIEHHB	

## Vigenere Cipher

	Keyword	plaintext key phrase
5	TEACUP      Keyword	TEACUPTEACUPTEACUPTEACUPTEACUPTEACUPTEACUPTEACUPTEAC
	Plaintext	XDCCELLRUNIVERSEGRAVITYSCEDOGMOONLIFEBOATPASSAGEIEICE
	Ciphertext	QHCGFAKYNKPTKWEILPOMTAMRXHOIGDHRLKZTUSAVJPLWAIYXXMCG

## Polybius Squ Cipher

[illegible]

# Freemason Ciphers

Gr	5	Plain	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		Cipher	┐	┌	└	┐	┐	└	┐	└	┐	└	<	&	>	┐	┌	└	┐	┐	└	┐	└	┐	└	<	&	>

RSUNGALAXYAHONEYBEETBORBITSPCUPSLOUNGETPOSTCARDCHAIR  
U!Q<G<.<N<Q.A<F.A!J.Q.A!A!C.L>>Q!F.AQ<G.Q>A!C><U.>Q.C.U

## Magic Squa Cipher

## Full Magic Square

1	9	17	25	33	41	49
18	26	34	42	43	2	10
35	36	44	3	11	19	27
45	4	12	20	28	29	37
13	21	22	30	38	46	5
23	31	39	47	6	14	15
40	48	7	8	16	24	32

### Empty Magic Square

1	9	17	25	33		49
18	26	34	42	43	2	
	36		3		19	27
45		12	20	28	29	37
13	21		30	38	46	5
23	31	39		6	14	15
40	48	7	8		24	32

phrase Square

FUELSPACEOBHTURBINEEPLANETHSTARILIGHTIHAMSTERNHEAVEN

F	E	I	E	L	M	A	
N	T	I	S	T	U	O	
G	H	E	E	B	E	H	
R	L	H	E	S	T	T	
T	P	L	A	I	N	S	
A	R	H	H	P	U	R	
A	E	A	C	B	N	I	VEN