Ragbaby Cipher

Step 1: Alice and Bob agree on a keyword, say "treenut", and remove duplicate letters leaving them with the reduced keyword "trenu".

Step 2: The Alphabet Line is created by writing the reduced keyword followed by the remaining English letters in alphabetical order (J and X are usually removed. If they are needed J becomes I and X becomes W):

trenuabcdfghiklmopqsvwyz

Step 3: The plaintext message is written down keeping the word lengths intact. Under the first letter of the first word, write a "1" and continue numbering the letters in the **first word** sequentially. Under the first letter of the second word, write a "2" and continue numbering the letters in the **second word** sequentially. This process continues in the obvious way (first letter of third word is given a "3" ...). For example:

thisistheonlyexample1234233454567567891011

Step 4: To encipher the first "t", locate "t" in your alphabet line and shift 1 letter to the right (since there is a 1 under the "t") to become an "R". The letter "h" is shifted two letters to the right from its place in the alphabet line to become a "K". "i" is shifted 3 letters to become "M". This process continues: each letter is shifted to the right a distance of *d* where *d* is the numeral below the letter. If you reach the end of the alphabet line, just wrap around to the beginning. For this example we have:

Plain:	t	h	i	s	i	s	t	h	е	(С	n	1	У	e	Э	W	а	m	р	1	е	
	1	2	3	4	2	3	3	4	5		4	5	б	7	!	5	6	7	8	9	10)]	L1
Cipher:	R	Κ	М	Ζ	L	Y	Ν	М	С		V	D	V	А		С	Ν	I	Ζ	Е	Т	Κ	

Step 5: The ciphertext is now transmitted, **keeping word lengths intact**. Since Bob knows the keyword, he can easily re-create the alphabet line, write down the appropriate numerals under the ciphertext and start shifting **to the left** to decipher the message.