Timed question:

I VISUALIZE A TIME WHEN WE WILL BE TO ROBOTS WHAT DOGS ARE TO HUMANS. AND I AM ROOTING FOR THE MACHINES.

1)

0	C	С	W	S	M	N	N	Z	С	Z	Y	D	D	С	T	N	P	С	G	0	M	P	С	0	S	В	V	Y	В	С
S	E	E	K	0	U	Н	Т	Н	E	Н	I	D	D	E	N	Т	R	E	A	ន	U	R	E	S	0	F	Т	I	F	E

Here's how we get the answer. Since we are given that

 $F(5) \rightarrow B(1)$

 $E(4) \to C(2)$

From this we know:

$$(a \times 5 + b) \mod 26 = 1$$

 $(a \times 4 + b) \mod 26 = 2$

Looking at the formulas we see that it is easiest to subtract the second from the first.

$$(a \times 5 + b) \mod 26 = 1$$

 $-(a \times 4 + b) \mod 26 = 2$
 $a \mod 26 = -1$
 $a \mod 26 = 25$

Now that we know that a = 25

Popping that back into any of the formulas (we pick the second one because it is the lowest multiplier)

$$(25 \times 4 + b) \mod 26 = 2$$

 $(100 + b) \mod 26 = 2$

We can then subtract 100 from both sides

$$(100 + b) \mod 26 - 100 = (2 - 100) \mod 26$$

 $b \mod 26 = -98 \mod 26$
 $b \mod 26 = 6 \mod 26$

And we see that b = 6. However, we only know a few of the letters in the cipher:

0	С	С	W	S	M	N	N	Z	С	Z	Y	D	D	С	Т	N	P	С	G	0	M	P	С	0	S	В	V	Y	В	С
	E	E							E					E				E					E			F			F	E

Our first step is to encode the common letters **ETAOIN** to see what they would map to. Note that we already know the mapping for E so we don't have to do that one.

E(4)
$$\rightarrow$$
 4×25+6 106 \rightarrow C(2)
T(19) \rightarrow 19×25+6 481 \rightarrow N(13)
A(0) \rightarrow 0×25+6 6 \rightarrow G(6)
O(14) \rightarrow 14×25+6 356 \rightarrow S(18)
I(8) \rightarrow 8×25+6 206 \rightarrow Y(24)
N(13) \rightarrow 13×25+6 331 \rightarrow T(19)

Filling in the letters we found (CNGSYT) we get a bit more of the answer

C	C	C		W	S	M	N	N	Z	С	Z	Y	D	D	С	T	N	P	С	G	0	M	P	С	0	S	В	V	Y	В	С
	E	E	2		0		Ļ	Т		E		I			E	N	Ţ		E	A				E		0	F		I	F	E

This doesn't give us enough to solve it quickly do we just take the next 5 letters **SRHLD**.

- $S(18) \rightarrow 18 \times 25 + 6 \quad 456 \rightarrow 0(14)$
- $R(17) \rightarrow 17 \times 25 + 6 \quad 431 \rightarrow P(15)$
- $H(7) \rightarrow 7 \times 25 + 6 \quad 181 \rightarrow Z(25)$
- $L(11) \rightarrow 11 \times 25 + 6 \quad 281 \rightarrow V(21)$
- $D(3) \rightarrow 3 \times 25 + 6 \quad 81 \rightarrow D(3)$

We know the reverse mapping of 5 more letters (OPZVD) which we can fill in

C	0	7.1	С	W	S	M	N	N	Z	C	Z	Y	D	D	O	T	N	P	С	G	0	M	P	С	0	S	В	V	Y	В	С
S	E	. :	E		0		Т	Т	H	E	H	I	D	D	Ε	N	Т	R	E	A	ហ		R	E	ន	0	F	L	I	F	E

This leaves us with two letters that we don't know the mapping for, but a quick read tells us the two Ms correspond to a U and the W must be the letter K. Doing the quick math confirms it

- $K(10) \rightarrow 10 \times 25 + 6 \quad 256 \rightarrow W(22)$
- $U(20) \rightarrow 20 \times 25 + 6 \quad 506 \rightarrow M(12)$

0	С	С	W	S	M	N	N	Z	С	Z	Y	D	D	С	T	N	P	С	G	0	M	P	С	0	S	В	V	Y	В	С
S	E	E	K	0	Ū	T	Ţ	H	E	Н	I	D	D	E	N	Т	R	E	A	S	Ū	R	E	S	0	F	L	I	F	E

2) When something is important enough, you do it even if the odds are not in your favor.

EURZB KYRLU JZTJB JYHKI LNZLR ZKCTU MKCQK JLRDR

WHENS OMETH INGIS IMPOR TANTE NOUGH YOUDO ITEVE

ZJSLU RKQQB NIRZK LJZMK CISND KI

NIFTH EODDS ARENO TINYO URFAV OR

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X	Y	Z
Frequency		3	3	2	1			1	4	6	9	6	2	3			3	7	2	2	4				2	7
Replacement	Q	S	U	V	W	X	Z	P	R	I	O	T	Y	A	В	C	D	E	F	G	Н	J	K	L	M	N

3) Perseverance is not a long race; it is many short races one after the other.

What you are looking for is the quotes above the characters. If you count the number of characters with quotes you find that 97 of them have quotes over them while 203 don't have quotes. One quick way to do this without counting is to add one when you see a character without a quote and subtract when you see a character with a quote as you go through the text. You quickly see that the number is largely positive which means that the non-quotes must correspond to the A symbol. The next step is to write an A below everyone without a quote and a B for the quoted characters and break into groups of 5 to decode..

see you racińģ see yoú racing sée yoú racínģ

AAA AAA AAAABB AAA AAB AAABAA ABA AAB AAABAB BAAAA AAAAABBAA AAABA AABAA ABAAA BAAAB E Α N Ι śee yóú ráćinģ see you rácíng śée ýoú ŕacinģ BAA ABB ABBAAB AAA AAA ABABAA BBA BAB BAAAAB ABBAA ABBAB BAABA AAAAA ABABAABBAB ABBAA Α L N śeé you racing see ýou rácing see ýou racing AABBABAAAA AAAAA AAABA AABAA ABAAA BAABA ABAAA Т A C F. т Ι G R sée yoú rácíng see yoú racíng seé you racíng ABA AAB ABABBA AAA AAB BAABAB BAB AAA BAABBB BAAAB ABABBAAAAA ABBAA BABBA BAAAB AABBB M Α N Y séé yóú racing sée ýou racing see yóu racing ABBAB BAAAA BAABA BAAAA AAAAA AAABA AABAA 0 R R Α C see ýoú racing see you racing seé you racing AAA BAB BABABB AAA ABA AAAAAA AAB ABB AABAAA BAAAB ABBAB ABBAA AABAA AAAAA AABAB BAABA N E A śee ýou raćing see ýóú raćing śée ýóu rácing BAA BAA AABAAB AAA BBB AABAAA BBA BBA ABAAAB AABAA BAAAA BAABA AABBB AABAAABBAB BAABA AABBB F. R H F. 0 т H śée yóu racing BBA ABA ABAAAA AABAA BAAAA R

W	0	R	K
W	Н	A	Т
S	V	R	D

W	0	R
Y	0	U
U	С	L

K	W
D	0
N	K

0	R	K	W	0
Т	0	D	A	Y
Н	F	N	W	M

R	K	W
С	Α	N
T	K	J

0	R	K	W	0	R	K		W	0	R	K	W	0	R	K	W	0	R	K	W	0	R	K
I	M	P	R	0	V	E		A	L	L	Y	0	Ū	R	T	0	M	0	R	R	0	W	S
W	D	Z	N	С	M	0		W	Z	С	I	K	I	I	D	K	A	F	В	N	С	N	С
		4.			C	• 1	•																

4) .. every failure is a step to success

The pattern is that A=A, B=B, C=A, D=B, E=A,F=B repeating on

_						/			/			/																
	Alph	nabet	A	В	C	D	Е	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X	Y	Z
	Baco	onian	A	В	Α	В	Α	В	A	В	A	В	Α	В	A	В	A	В	Α	В	A	В	A	В	A	В	Α	В

You can figure this out by looking at the mapping for the first four words

Alphabet	A	В	C	D	Е	F	G	Н	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Baconian	A	В			A			В	A			В	A		A			В	A	В	A	В				

Looking at the string of RSTUV you see BABAB combined with the HI and LM each mapping to a BA, if you just fill in the rest you see it matches a pattern of ABAB...

MARIA BUILT MOVIE HOUSE BADLY.

AABAA BAABB AABAA BAAAA BABBA

E V E R Y

SUPER QUICK CLOCK WRONG.

AABAB AAAAA ABAAA ABABA

F A I L

BOARD LOOSE SINCE CHASE BEGUN

BAABB BAAAA AABAA ABAAA BAAAB

U R E I S

MUSIC BUYER BEING MOVIE EXTRA.

AAAAA BAAAB BAABA AABAA ABBBA

A S T E P

HEAVY URBAN TOWER BUILT WORSE SINCE MARIA BEGAN VISIT.

BAABA ABBAB BAAAB BAABB AAABA AAABA AABAA BAAAB BAAAB

T O S U C C E S S

5)

J	(С	Н	A	N	N	E	S	D	E	I	G	R	Α	С	Ι	A	R	E	X	A	N	G	L	I
I	I	D	0	T	Н	I	N	K	T	Н	A	Т	M	Α	Ŋ	N	A	С	Α	R	T	A	A	N	D
R	I	R	V	Т	U	V	R	С	W	L	I	Z	D	A	I	٧	A	Т	E	0	Т	N	G	Y	L

	E	ם	0	M	I	N	Ū	S	Н	I	В	E	R
	I	N	T	E	R	N	A	T	I	0	N	A	L
Ī	M	Q	Н	Q	Z	A	U	L	P	W	0	E	C

N	I	E
L	A	W
Y	I	A

D	Ū	X
A	R	E
D	L	В

N	0	R	M	A
W	0	R	Т	Н
J	С	I	F	H

N	N	I	E	Α	Q	U	I	Т	A	N	N	Ι	E	E	Т	С	0	M	E	S
P	A	Y	I	N	Ð	S	0	M	E	A	T	Т	E	N	T	I	0	N	T	0
С	N	G	M	N	W	M	W	F	E	N	G	В	I	R	M	K	С	Z	X	G

It is important to remember to ignore spaces and punctuation on both the text to be encoded and the encoding key.

6) THE TRUE SIGN OF INTELLIGENCE IS NOT KNOWLEDGE BUT IMAGINATION.

KUNKB INOLT JYHLJ KNXXL TNJRN LOJYK WJYDX NSTNQ THETR UESIG NOFIN TELLI GENCE ISNOT KNOWL EDGEB IKLMP TLJPK LYJ.

UTIMA GINAT ION.

<u>K1</u>	A	B	\mathbf{C}	D	E	F	G	H	I	J	K	L	\mathbf{M}	N	0	P	Q	R	S	T	U	V	W	X	Y	\mathbf{Z}
Frequency		1		1				1	2	7	6	7	1	7	2	2	1	1	1	4	1		1	3	4	
Replacement	Q	R	V	W	X	Y	Z	F	U	N	T	I	M	Е	S	Α	В	C	D	G	Н	J	K	L	О	P