6502 Assembly Language Reference Card

	flags				impl	#nn	$nn	$nn,X	$nn,Y	$nnnn	$nnnn,X	$nnnn,Y	($nnnn)	($nn,X)	($nn),Y	
ADC	N	V	Z	C		69 2	65 3	75 4		6d 4	7d 4+	79 4+		61 6	71 5+	**ADC**
AND	N		Z			29 2	25 3	35 4		2d 4	3d 4+	39 4+		21 6	31 5+	**AND**
ASL	N		Z	C	0a 2		6 5	16 6		0e 6	1e 7					**ASL**
BIT	N	V	Z				24 3			2c 4						**BIT**
CMP	N		Z	C		c9 2	c5 3	d5 4		cd 4	dd 4+	d9 4+		c1 6	d1 5+	**CMP**
CPX	N		Z	C		e0 2	e4 3			ec 4						**CPX**
CPY	N		Z	C		c0 2	c4 3			cc 4						**CPY**
DEC	N		Z				c6 5	d6 6		ce 6	de 7					**DEC**
EOR	N		Z			49 2	45 3	55 4		4d 4	5d 4+	59 4+		41 6	51 5+	**EOR**
INC	N		Z				e6 5	f6 6		ee 6	fe 7					**INC**
JMP										4c 3			6c 5			**JMP**
JSR										20 6						**JSR**
LDA	N		Z			a9 2	a5 3	b5 4		ad 4	bd 4+	b9 4+		a1 6	b1 5+	**LDA**
LDX	N		Z			a2 2	a6 3		b6 4	ae 4		be 4+				**LDX**
LDY	N		Z			a0 2	a4 3	b4 4		ac 4	bc 4+					**LDY**
LSR	N		Z	C	4a 2		46 5	56 6		4e 6	5e 7					**LSR**
ORA	N		Z			9 2	5 3	15 4		0d 4	1d 4+	19 4+		1 6	11 5+	**ORA**
ROL	N		Z	C	2a 2		26 5	36 6		2e 6	3e 7					**ROL**
ROR	N		Z	C	6a 2		66 5	76 6		6e 6	7e 7					**ROR**
SBC	N	V	Z	C		e9 2	e5 3	f5 4		ed 4	fd 4+	f9 4+		e1 6	f1 5+	**SBC**
STA							85 3	95 4		8d 4	9d 5	99 5		81 6	91 6	**STA**
STX							86 3		96 4	8e 4						**STX**
STY							84 3	94 4		8c 4						**STY**
bytes					1	2	2	2	2	3	3	3	3	3	3	

Implicit Instructions

	N	V	-	B	D	I	Z	C	Hex	Cyc
BRK				1		1			00	7
CLC								0	18	2
CLD					0				d8	2
CLI						0			58	2
CLV		0							b8	2
DEX	N						Z		ca	2
DEY	N						Z		88	2
INX	N						Z		e8	2
INY	N						Z		c8	2
NOP									ea	2
PHA									48	3
PHP									08	3
PLA	N						Z		68	4
PLP	N	V			D	I	Z	C	28	4
RTI	N	V			D	I	Z	C	40	6
RTS									60	6
SEC								1	38	2
SED					1				f8	2
SEI						1			78	2
TAX	N						Z		aa	2
TAY	N						Z		a8	2
TSX	N						Z		ba	2
TXA	N						Z		8a	2
TXS									9a	2
TYA	N						Z		98	2

All opcodes: 1 byte

Compare Instructions

	Hex	Unsigned	Signed
BCC	90	A < #	
BCS	b0	A >= #	
BEQ	f0	A == #	A == #
BMI	30		A < #
BNE	d0	A != #	A != #
BPL	10		A >= #
BVC	50		
BVS	70		

All instructions 2 bytes
Cycle count: 2, add 1 if taken
2 if taken and crosses page