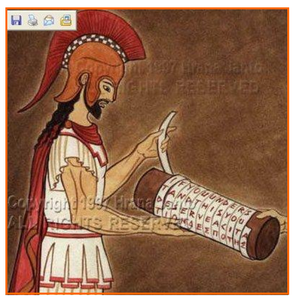
DIDAMATICA 2011

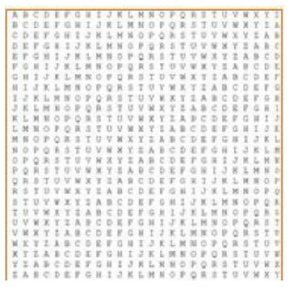
ISTITUTO TECNICO COMMERCIALE “G. CALO’ “
Francavilla Fontana (BR)

Dirigente scolastico: prof. Vincenzo Caragli
www.itccalo.it

Docenti: Rosaria Trisolino - Cosimo Giuseppe Massaro



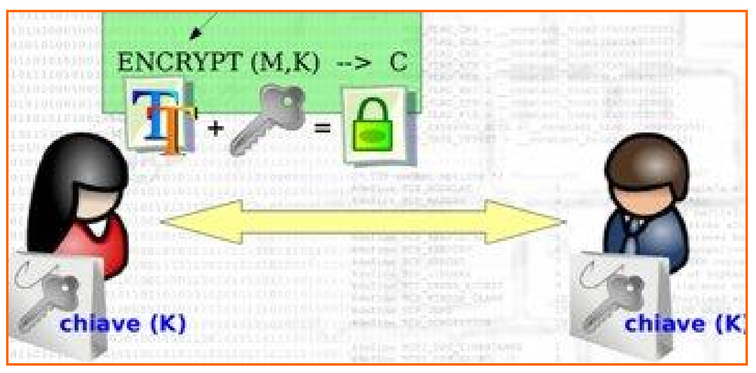
Scitala



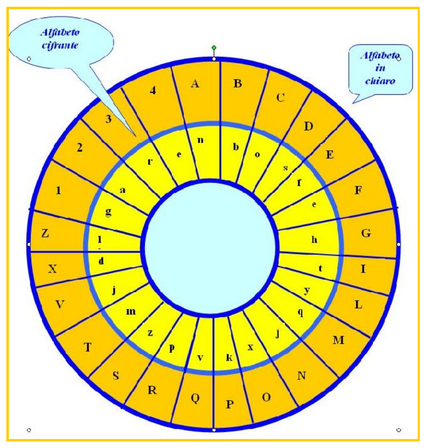
Tabula recta Vigenere

#	1	2	3	4	5
1	a	b	c	d	e
2	f	g	h	i	j
3	kq	l	m	n	o
4	p	r	s	t	u
5	v	w	x	y	z

Scacchiera di di Polibio

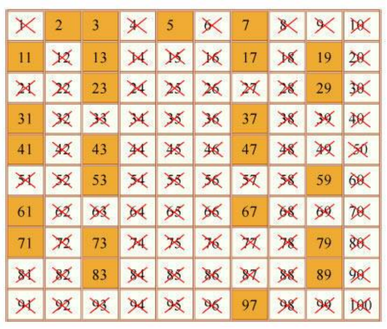


Crittografia a chiave segreta



Disco di Alberti

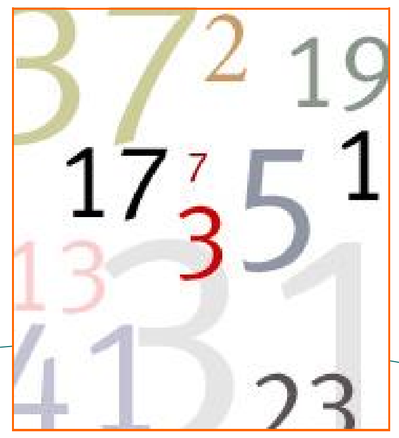
Enigma



Crivello di Eratostene

$$M_{43} = 2^{30402457} - 1$$

Numero primo di Mersenne



Numeri primi

$$F_n = 2^{2^n} + 1$$

Formula di Fermat

Eulero

a	=	b	x	q	+	r
420	=	154	x	2	+	112
154	=	112	x	1	+	42
112	=	42	x	2	+	28
42	=	28	x	1	+	14
28	=	14	x	2	+	0

Algoritmo di Euclide

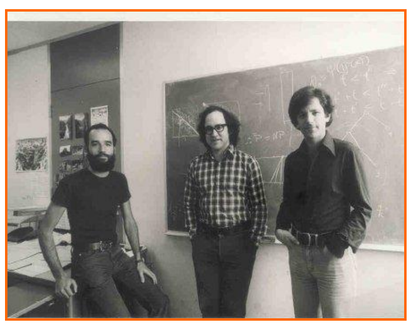
Euclide

	1	2	3	4	5	6	7	8	9	10
1	1	1	1	1	1	1	1	1	1	1
2	2	4	8	5	10	9	7	3	6	1
3	3	9	5	4	1	3	9	5	4	1
4	4	5	9	3	1	4	5	9	3	1
5	5	3	4	9	1	5	3	4	9	1
6	6	3	7	9	10	5	8	4	2	1
7	7	5	2	3	10	4	6	8	9	1
8	8	9	6	4	10	3	2	5	7	1
9	9	4	3	5	1	9	4	3	5	1
10	10	1	10	1	10	1	10	1	10	1

Potenza in Z_{11}

Gauss

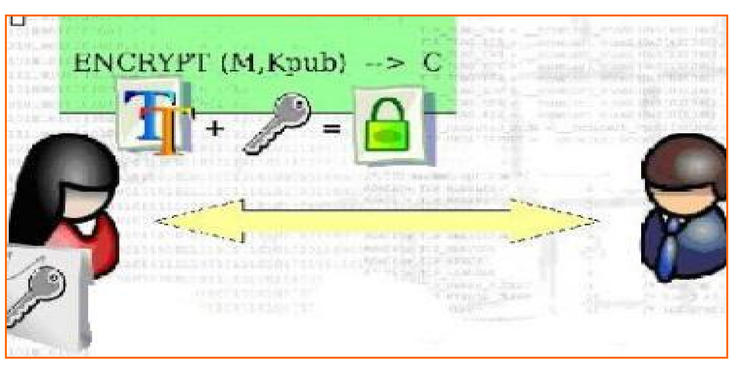
Aritmetica modulare



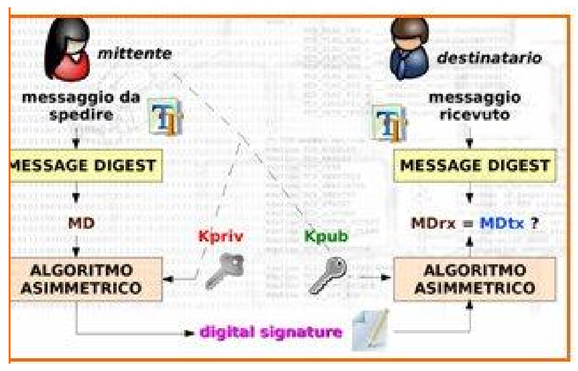
Sistema RSA
Rivest - Shamir - Adleman

$$a^{\varphi(n)} \equiv 1 (\mathrm{mod}\, n)$$

Teorema di Eulero



Crittografia a chiave pubblica



Firma digitale