Katherine Johnson

1918-2020

Career: Computing

Accomplishments:

- 35-years at NASA
- Mastered manual calculations + pioneered the use of computers in the process of these calculations
- Her calculations enabled the success of missions including Project Mercury, The Apollo Lunar and Command Modules, The Space Shuttle Program, and a mission to Mars

<u>Awards:</u>

- Awarded the Congressional Gold Medal
- The Presidential Medal of Freedom.

Evelyn Boyd Granville

1924-present

Career: Mathematics

Accomplishments:

- The second African-American woman to receive a Ph.D. in Mathematics from an American University
- Graduated from Yale in 1949
- Her work including pioneering advances in computing
- Her tenure at IBM led to contributions to the Apollo Program.

Awards:

Awarded an honorary
Doctorate degree from
Smith College

Annie Easley

1933-2011

Career:

Computer Science/Mathematics/ Rocket Science

Accomplishments:

- Worked for NASA at the Lewis Research Center, developing software for the Centaur rocket, also used in the Cassini probe
- One of the first African Americans to work as a computer scientist at NASA.

Awards:

 Special Achievement Award

Mary Jackson

1921-2005

Mathematics Aerospace Engineering

Career:

Accomplishments:

- Mathematician & aerospace engineer with NASA
- NASA's first Black female engineer in 1958
- Manager of the Federal Women's Program & Affirmative Action Program
- NASA Washington DC Headquarters was renamed in her honor

Awards:

 The Congressional Gold Medal.

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A: 01000001	a: 01100001
B: 01000010	b: 01100010
C: 01000011	c: 01100011
D: 01000100	d: 01100100
E: 01000101	e: 01100101
F:01000110	f: 01100110
G: 01000111	g: 01100111
H: 01001000	h: 01101000
I: 01001001	i: 01101001
J: 01001010	j: 01101010
K: 01001011	k: 01101011
L: 01001100	1: 01101100
M: 01001101	m: 01101101
N: 01001110	n: 01101110
O: 01001111	o: 01101111
P: 01010000	p: 01110000
Q: 01010001	q: 01110001
R: 01010010	r: 01110010
S: 01010010	s: 01110011
T: 01010010	t: 01110100
U: 01010101	u: 01110101
V: 01010110	v: 01110110
W: 01010111	w: 01110111
X: 01011000	x: 01111000
Y: 01011001	y: 01111001
Z: 01011010	z: 01111010

Binary Letters

<u>Write your name</u> in Binary Code:

- Be aware of the upper and lowercase letters
- have fun with this
- write out a friend's or family members name as well

Once you've mastered this...check out the decoding messages.

"01011001*01101111*01110101 01100011*01100001*01101110 01100100*01101111 01110100*01101000*01101001 *01110011"

<u>Message 1:</u>

Message 2:

"01010010*01110010*01111001 _01111001*01101111*01110101* 01110010 01100010*01100101*01110011 *01110100!"

