

013 Blast Comparison

Why do we use scientific notation?

Why do we use metric prefixes?

Each Nuclear detonation is either in kilotons or mega tons of TNT for comparison

1 kiloton = 4.3 TJ of energy

1 TJ = 280,000 (KWH) Kilo Watt Hours

Average home uses 12,000 KWH

North Korea detonated a 140kt bomb on September 3rd, 2017

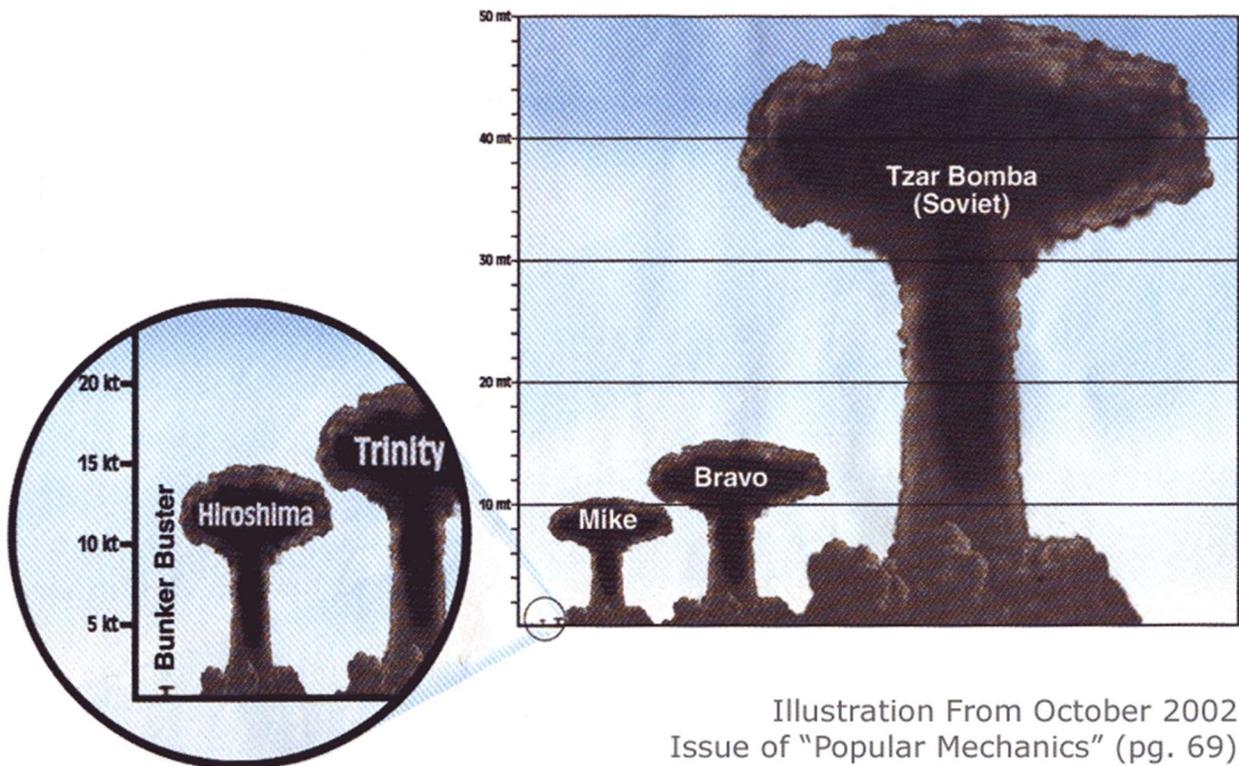
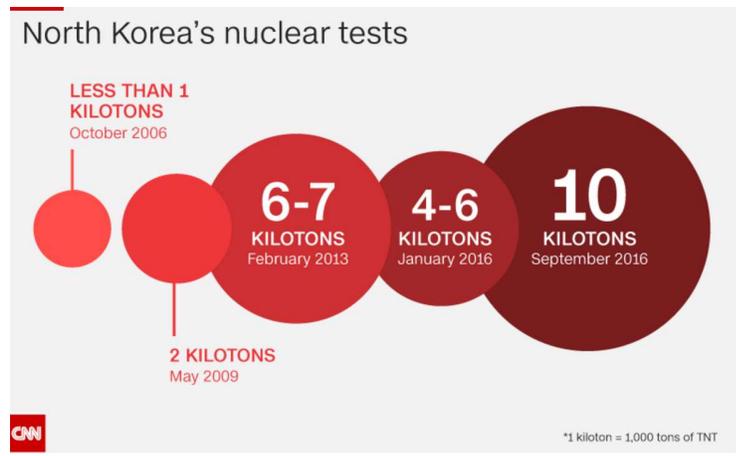


Illustration From October 2002 Issue of "Popular Mechanics" (pg. 69)



BLAST COMPARIOSN CHART

Blast	Tons TNT	Compared to Hiroshima 15kt	Tera Joules energy 1kt = 4.3TJ	Kilowatt Hours 1TJ= 2.8 x10 ⁵ KWH	Energy for home 1 year 1.2 x10 ⁴ KWH
Hiroshima 15kt	= 1.5x10 ⁴	1X	64	1.8x10 ⁷	1.5 x10 ³
N. Korea 140kt	= 1.4x10 ⁵	9.3X	6.0 x10 ²	1.7 x10 ⁸	1.4 x10 ⁴
Mike 10.Mt					
Bravo 15Mt					
Tzar 50.Mt					