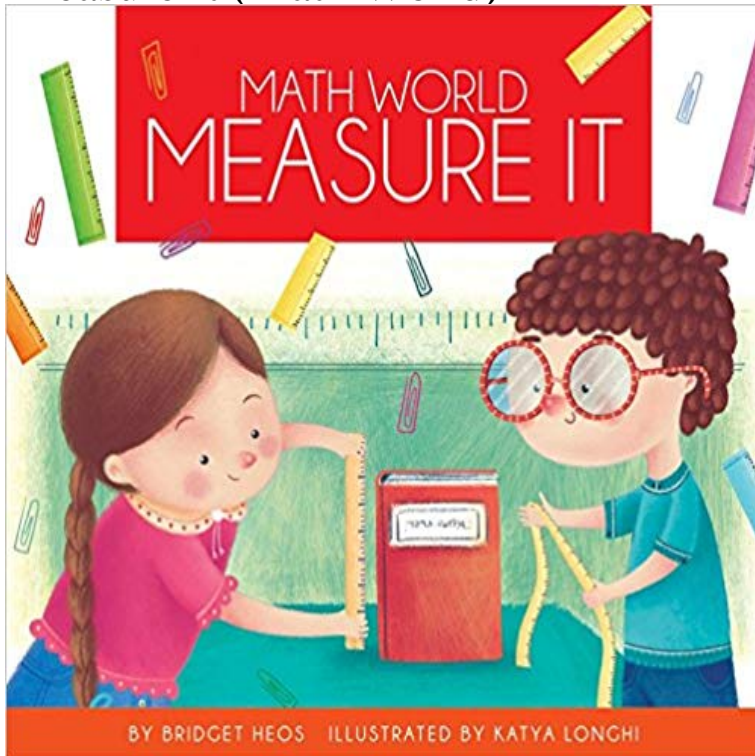


## Measure It (Math World)



Kids in a classroom practice measuring favorite objects they brought from home using different units of measurement and comparing the objects.

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**Caratheodory Measure -- from Wolfram MathWorld** is the Lebesgue measure on  $H$ . CITE THIS AS: Measure. From MathWorld--A Wolfram Web Resource. <http://GaussMeasure.html> **Wiener Measure -- from Wolfram MathWorld** CITE THIS AS: Weisstein, Eric W. Liouville Measure. From MathWorld--A Wolfram Web Resource. <http://LiouvilleMeasure.html> **Jordan Measure -- from Wolfram MathWorld** The radian is a unit of angular measure defined such that an angle of one radian subtended from the center of a unit circle produces an arc with arc length 1. **Probability Measure -- from Wolfram MathWorld** has (at most) finitely many solutions  $p/q$  for  $p$  and  $q$  integers. Then the irrationality measure, sometimes called the Liouville-Roth constant or irrationality **Irrationality Measure -- from Wolfram MathWorld** is said to be an outer measure provided that  $\mu^*(\text{emptyset})=0$  and that  $\mu^*$  From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. **Complex Measure -- from Wolfram MathWorld** Multifractal Measure. A measure for which the  $q$ -dimension  $D_q$  varies with  $q$ . REFERENCES: Ott, E. Chaos in Dynamical Systems. New York: Cambridge **Measure Space -- from Wolfram MathWorld** of  $\mu^*$ -measurable sets is called the Caratheodory measure induced by  $\mu$ . From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. **Outer Measure -- from Wolfram MathWorld** Jordan Measure. Let  $M$  be a bounded set in the plane, i.e.,  $M$  is contained entirely within a rectangle. The outer Jordan measure of  $M$  is the greatest lower bound **Total Variation Measure -- from Wolfram MathWorld** REFERENCES: Ko, K.-I. A Polynomial-Time Computable Curve whose Interior has a Nonrecursive Measure. Theoret. Comput. Sci. 145, 241-270, 1995. **Natural Measure -- from Wolfram MathWorld** Prime Number of Measurement. The set of numbers generated by excluding the sums of two or more consecutive earlier members is called the prime numbers **Radon Measure -- from Wolfram MathWorld** A positive measure is a measure which is a function from the measurable sets of a From MathWorld--A Wolfram Web

Resource, created by Eric W. Weisstein. **Radian -- from Wolfram MathWorld** Banach Measure. An area which can be defined for every set--even those without a true geometric area--which is rigid and finitely additive. CITE THIS AS:.

**Singular Measure -- from Wolfram MathWorld** -dimensional Euclidean space with Lebesgue measure and the unit interval with Lebesgue measure (i.e., From MathWorld--A Wolfram Web Resource. **Prime Number of Measurement -- from Wolfram MathWorld** Measure. EXPLORE THIS TOPIC IN the MathWorld Classroom. The terms measure, measurable, etc. have very precise technical definitions (usually **Intensity Measure -- from Wolfram MathWorld** Define the Euler measure of a polyhedral set as the Euler integral of its indicator function. It is easy to Measure. From MathWorld--A Wolfram Web Resource. **Multifractal Measure -- from Wolfram MathWorld** A discrete singular measure (with respect to Lebesgue measure on the reals) is a From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. **Product Measure -- from Wolfram MathWorld** Lebesgue Measure. EXPLORE THIS TOPIC IN the MathWorld Classroom. The Lebesgue measure is an extension of the classical notions of length and area to **Positive Measure -- from Wolfram MathWorld** Mohler, George. Radon Measure. From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. <http://RadonMeasure>. is said to be a probability measure. Probability Measure. From MathWorld--A Wolfram Web Resource. <http://ProbabilityMeasure.html> **Minkowski Measure -- from Wolfram MathWorld** **Borel Measure -- from Wolfram MathWorld** Wiener Measure. The probability law on the space of continuous functions  $g$  with  $g(0)=0$ , induced by the Wiener process. SEE ALSO: Wiener Process. **Banach Measure -- from Wolfram MathWorld** Natural Measure.  $\mu_i(\epsilon)$ , sometimes denoted  $P_i(\epsilon)$ , is the probability that element  $i$  is populated, normalized such that **Euler Measure -- from Wolfram MathWorld** Product Measure. From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. <http://ProductMeasure.html> **Haar Measure -- from Wolfram MathWorld** Contribute to MathWorld Total Variation Measure Explore thousands of free applications across science, mathematics, engineering, technology, business, **Lebesgue Measure -- from Wolfram MathWorld** Math. Soc., 1994. Halmos, P. R. Measure Theory. New York: Springer-Verlag created by Eric W. Weisstein. <http://MeasureTheory.html> **Gauss Measure -- from Wolfram MathWorld** is the Borel sigma-algebra on some topological space, then a measure SEE ALSO: Regular Borel Measure From MathWorld--A Wolfram Web Resource. **Measure Theory -- from Wolfram MathWorld** The notion of an intensity measure is intimately connected to one oft-discussed From MathWorld--A Wolfram Web Resource, created by Eric W. Weisstein. **Measure Zero -- from Wolfram MathWorld** Haar Measure. Any locally compact Hausdorff topological group has a unique (up to scalars) nonzero left invariant measure which is finite on compact sets.