



Test Ninjas

VOCABULARY STUDY SERIES

ACT VOCABULARY

ACT Science Vocabulary: Measurement & Mathematical Relationships

20 focused words in Measurement & Mathematical Relationships

20

UNIQUE WORDS

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CATEGORIES

ACT

EXAM FOCUS



About this study guide

This vocabulary guide was prepared and published by Test Ninjas as an independent study resource. It is designed to help students build the precise word knowledge needed for demanding academic reading and reasoning.

How to use this guide

Study in short, repeated sessions. Read each definition, say the word aloud, and use the example to understand how the word functions in context. Return to unfamiliar words until you can explain them without looking at the definition.

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001 accurate *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

correct; free from errors or mistakes; precise.

The survey produced an **accurate** estimate because researchers checked every response twice before publishing the results.

MEMORY CUE: An accurate arrow strikes the precise center without error.

002 precise *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

exact; clearly expressed; strictly defined.

The surgeon's **precise** movements were impressive, showing whether a clear structure guided the activity as conditions became more demanding.

MEMORY CUE: A precise point lands exactly on the target's center.

003 uniform *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

not changing in form or character; remaining the same in all cases and at all times. (Also a noun for a distinctive clothing worn by members of a group.)

The company implemented **uniform** policies across all its branches, giving observers a more precise basis for comparing the two subjects.

MEMORY CUE: A uniform pattern remains identical throughout; a uniform outfit marks group membership.

004 inverse *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

Opposite in position, direction, order, or effect

The study revealed an **inverse** relationship between screen time and academic performance among adolescents.

MEMORY CUE: An inverse relationship points one arrow up as the other goes down.

005 equivalence *noun***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

The condition of being equal or interchangeable in value, function, or meaning

The mathematician proved the **equivalence** of the two theorems, showing that each could be derived from the other.

MEMORY CUE: Equivalence places two things on equal, interchangeable sides of a balance.

006 commensurate *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

Corresponding in size or degree; in proportion

The salary offered was not **commensurate** with the level of experience required for the position.

MEMORY CUE: Commensurate scales balance because reward corresponds proportionally to effort.

007 interchangeable *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

Able to be exchanged with each other; essentially identical

The parts were designed to be **interchangeable**, so that a broken component could be replaced without custom fabrication.

MEMORY CUE: Interchangeable parts trade places while the machine continues working the same way.

008 negligible *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

So small or unimportant as to be not worth considering; insignificant

The difference in cost between the two options was **negligible**, so the committee chose the more sustainable one.

MEMORY CUE: A negligible amount shrinks into a speck too small to matter.

009 substantial *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

of considerable importance, size, or worth; solidly built

The company made a **substantial** investment in new technology, helping the audience recognize how much of the larger subject it represented.

MEMORY CUE: A substantial block is large, solid, valuable, and too important to ignore.

010 finite *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

having limits or bounds

Earth's resources are **finite**, making the scale or scope of the subject easier to understand through comparison.

MEMORY CUE: A finite road has marked boundaries and a definite end.

011 infinite *adjective***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

limitless or endless in space or time

The universe may be **infinite** in extent, helping the audience recognize how much of the larger subject it represented.

MEMORY CUE: An infinite road continues beyond every horizon without limit.

012 exponentially *adverb***MEASUREMENT & MATHEMATICAL RELATIONSHIPS**

At an increasingly rapid rate; by a very large amount

Data storage costs have decreased **exponentially** over the past three decades, transforming entire industries.

MEMORY CUE: Exponential growth climbs faster each step, multiplying instead of adding.

013 **simultaneously** *adverb*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

At the same time; concurrently

The orchestra's ability to play softly and intensely **simultaneously** created a tension that held the audience spellbound.

MEMORY CUE: Two clocks striking simultaneously sound at exactly the same time.

014 **minute** *adjective*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

extremely small

Only **minute** traces were detected, making the scale or scope of the subject easier to understand through comparison.

MEMORY CUE: A minute detail is so tiny that a lens must enlarge it.

015 **immense** *adjective*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

extremely large or great; huge.

The **immense** desert stretched endlessly, helping the audience recognize how much of the larger subject it represented.

MEMORY CUE: An immense object stretches far beyond the frame.

016 **proportional** *adjective*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

Changing at a constant ratio so that one quantity scales directly with another.

The extension of the spring remained **proportional** to the applied force throughout the tested range.

MEMORY CUE: On a proportional seesaw, multiplying one quantity multiplies the other by the same factor.

017 **linear** *adjective*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

Following a constant rate of change that forms a straight line when graphed.

The graph is **linear** because pressure rises by the same amount with each temperature increase.

MEMORY CUE: LINE hides inside linear; a constant rate draws a straight graph line.

018 **nonlinear** *adjective*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

Not following a constant rate of change and therefore not forming a straight graph line.

The population showed **nonlinear** growth as limited food gradually slowed the rate of increase.

MEMORY CUE: A nonlinear relationship bends away from the ruler because its rate keeps changing.

019 **ratio** *noun*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

A comparison of two quantities expressed by dividing one amount by the other.

The **ratio** of nitrogen atoms to hydrogen atoms remains one to three in every ammonia sample.

MEMORY CUE: A ratio places two quantities on opposite sides of a comparison colon.

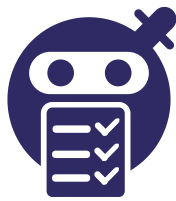
020 **gradient** *noun*

MEASUREMENT & MATHEMATICAL RELATIONSHIPS

The rate at which a measured quantity changes across distance or another continuous dimension.

A steep temperature **gradient** developed between the heated surface and the cooler bottom layer.

MEMORY CUE: A gradient is a change ramp: steep ramps show rapid change across distance.



ACT VOCABULARY

Keep building your edge.

Vocabulary grows through repeated exposure and deliberate use.
Revisit this list, write with the words, and practice recognizing their
meaning in context.

More focused practice at test-ninjas.com