

# 8th grade math vocabulary words and definitions

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### Vocabulary and Math for Eighth Graders

Eighth grade students are expected to have a wide vocabulary that includes words related to math and other academic disciplines. Here's a comprehensive guide to essential vocabulary words for this grade level.

#### Math Vocabulary

##### Key Math Terms

- **Term:** A mathematical expression or phrase that represents a concept (e.g., variable, equation)
- **Coefficient:** A number multiplied by a variable (e.g.,  $3x$ )
- **Exponent:** A number indicating how many times a base is multiplied by itself (e.g.,  $a^3$ )
- **Factor:** A number or expression that divides evenly into another number or expression (e.g., 12 is a factor of 24)
- **Function:** A rule that assigns a unique output value to each input value (e.g.,  $y = mx + b$ )

#### Geometry

- **Angle:** A measure of the opening between two rays
- **Congruent:** Equal in size and shape

- Hypotenuse: The longest side of a right triangle
- Perimeter: The distance around the outside of a figure
- Radius: The distance from the center to any point on a circle

## Algebra

- Equation: A statement that two expressions are equal
- Inequality: A statement that two expressions are not equal
- Variable: A letter or symbol used to represent an unknown value
- Slope: The rate of change of a line
- Y-intercept: The point where a line crosses the y-axis

## 8th Grade Vocabulary Words

In addition to math-specific vocabulary, eighth graders should also be familiar with the following general vocabulary words:

- **Nouns:** Adolescence, analysis, appreciation, circumstance, climax
- **Verbs:** Articulate, collaborate, demonstrate, evaluate, illustrate
- **Adjectives:** Ambiguous, conscientious, controversial, enigmatic, substantial
- **Adverbs:** Apparently, concurrently, drastically, eventually, ironically

## Vocabulary Building for 8th Graders

To improve their vocabulary, eighth graders can:

- Read widely and use a dictionary or thesaurus
- Participate in vocabulary-building games and activities
- Study roots, prefixes, and suffixes
- Use flashcards to review and practice words

By mastering these vocabulary words, eighth graders can enhance their communication skills, boost their comprehension, and succeed in their academic endeavors.

**What is the Cambridge First Certificate in English equivalent to?** Valid scores on the FCE Exam range from 140 to 190. A score of 160 or above is considered a “pass” and students with that score will receive the Cambridge First Certificate, which corresponds to a level B2 in English on the CEFR.

**Is the Cambridge certificate valid?** How long is my C1 Advanced certificate valid for? Your Cambridge English certificate does not expire. Recognising organisations such as universities, colleges and employers can choose how long to accept results for, so make sure you always check their requirements.

**What level is Cambridge First Certificate in English?** If you achieve a scale score of 160–179 (grade B or C) in your exam, you will be awarded the First Certificate in English at Level B2. We believe it is important to recognise your achievement, even if you do not reach Level B2.

**How much does the Cambridge certificate test cost?**

**Does Harvard accept Cambridge English certificate?** If you are an applicant whose native language is not English and your undergraduate degree was not taught in English, you are required to submit results from the Test of English as Foreign Language (TOEFL), International English Language Testing System (IELTS, academic test only), or Cambridge English exam as part of ...

**Are Cambridge certificates worth it?** These exams will help you build a strong foundation and learning framework for English, and prepare you for future exams and opportunities. Getting a Cambridge certification for English has many advantages. It can boost your confidence, enhance your CV, open new doors, and give you a sense of achievement.

**Do American universities accept Cambridge certificate?** Are Cambridge English exams accepted in the USA? Yes.

**Is Cambridge accredited in the US?** Cambridge College is accredited by the New England Commission of Higher Education (NECHE), (formerly the Commission on Institutions of Higher Education of the New England Association of Schools and Colleges, NEASC).

**Which Cambridge English certificate is best?** C2 Proficiency, formerly known as Cambridge English: Proficiency (CPE), is one of our Cambridge English Qualifications. It is our highest-level qualification – proof that you are a highly competent speaker of English. A C2 Proficiency qualification shows the world that you have mastered English to an exceptional level.

**What is Cambridge First Certificate Proficiency?** Cambridge English: First is also called the First Certificate in English (FCE) and First Certificate in English for Schools (FCEfs). This general English qualification proves that you can speak and write English well enough to work or study in an English-speaking environment.

**How much does the FCE exam cost?** FCE Pricing Our standard price for a single session FCE is \$750.00. In most cases, work comp insurance will pay for the exam but you are required to receive pre-authorization. If you are considering having it billed through health insurance, the chances are very slim that it will be covered.

**What is Cambridge English certificate?** Cambridge English Qualifications are in-depth exams that make learning English enjoyable, effective and rewarding. Our unique approach encourages continuous progression with a clear path to improve language skills. We have qualifications for schools, general and higher education, and business.

**How much does it cost for Cambridge?** The tuition fee for Home fee status students starting their first undergraduate degree in 2024 will be £9,250 for the year.

**Can I take a Cambridge exam online?** We do offer digital versions of many of our exams, which follow the same format as the paper-based exams.

**How much does it cost to pass Cambridge exam?** A score of 180 or above is considered a “pass” and students with that score will receive the Cambridge C1 Advanced certificate, which corresponds to a level C1 in English on the CEFR. Students scoring 200 or above on the C1 Advanced will receive a Cambridge English certificate for level C2.

**Is FCE B2 or C1?** FCE / CAE. Who is it for? FCE / CAE - The FCE exam (First Certificate in English) is for upper intermediate students who want to certify that they have a B2 level of English, whilst the CAE exam (Certificate Exam in Advanced

English) is to certify that students have a C1 level.

**What is the difference between Cambridge First Certificate and TOEFL?** A Cambridge certificate will be valid for the rest of your life, whereas IELTS and TOEFL are snapshots of your level of English and only valid for two years. If you want to get a language diploma to prove your level and have something to showcase on your CV, a Cambridge English exam is probably the best choice.

**Which English certificate is equal to C1?**

**What is the difference between IELTS and Cambridge FCE?** Choosing between IELTS and Cambridge exams depends on your specific goals as an international student. For immigration, higher education, or general English proficiency needs, IELTS is an appropriate choice. For those seeking to demonstrate their academic English prowess, Cambridge Exams are probably a better fit.

**What is a substation in electrical engineering?** A substation is a high-voltage electric system facility. It is used to switch generators, equipment, and circuits or lines in and out of a system. It also is used to change AC voltages from one level to another, and/or change alternating current to direct current or direct current to alternating current.

**What does a substation engineering do?** What You'll Do. You'll perform detailed design of new substation layouts. You'll create design documents, technical specifications, and drawings for new substation projects including electrical plans, schematics, bills of materials, and equipment specifications.

**How to learn substation design?**

**What is electrical substation pdf?** CHAPTER 6. Page 2. Electrical Substation. An electrical substation is a subsidiary station of an electricity generation, transmission and distribution system where voltage is transformed from high to low or the reverse using transformers.

**What are the three types of substations?** Different Types of Substations  
High Voltage Substations (66kV, 110kV, 220kV, and 500kV)  
Medium Voltage Substations (6kV, 10kV, 15kV, 22kV, and 35kV)  
Low Voltage Substations (0.2kV and 0.4kV)  
Mobile Substation.

**What are the three main parts of a substation?** An Electrical substation is a critical component in the electrical power distribution system, comprising three main parts: transformers, switchgear, and control systems. These parts work together to ensure efficient energy distribution, voltage regulation, and safety within the grid.

**How much do substation engineers make in the US?** The average substation engineer salary in the USA is \$114,355 per year or \$54.98 per hour. Entry level positions start at \$97,162 per year while most experienced workers make up to \$140,000 per year.

**Do substation technicians climb?** Work is physically demanding, and employees must be capable of frequent lifting and carrying of heavy (50 - 75 pounds) equipment and materials such as: engine parts, mufflers, drums of oil, welder, and batteries with the aid of a cart or other assistance, as well as considerable bending, stooping, and climbing ...

**What is a substation electrician?** Substation Electricians inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

**How long does it take to design a substation?** Typically electric substation projects can take 2-3 years from the time management decides to pursue a project till the time bids are received from a contractor to build it.

**Which software is used for substation design?** Autodesk AutoCAD Electrical AutoCAD Electrical, part of Autodesk's suite of products, is popular among professionals for creating detailed electrical schematics. While not exclusively focused on substation design, it is extensively used in the industry for electrical layouts and wiring design.

**What are the three important equipment of a substation?** Substations generally have switching, protection and control equipment, and transformers. In a large substation, circuit breakers are used to interrupt any short circuits or overload currents that may occur on the network.

**What is the basic knowledge of substation?** Substations contain the specialist equipment that allows the voltage of electricity to be transformed (or 'switched'). The

voltage is stepped up or down through pieces of equipment called transformers, which sit within a substation's site.

**What is a substation electrical engineer?** Ramanarayanan "Vish" Viswanathan Ph.D., Eric Miller Ph. D. A substation's electrical engineer is responsible for the design, maintenance, and operation of electrical substations. They ensure that the substation equipment functions safely and efficiently by performing regular inspections and tests.

**How many transformers are in a substation?** How many electrical transformers are in a substation? Determined according to the number of voltage levels. If it is a 35kv substation, two are generally used, one for 35kv and one for 10kv. No more than three high voltage levels.

**What is the main function of a substation?** One of the main roles of substations is to convert electricity into different voltages. This is needed so the electricity can be transmitted throughout the country and then distributed throughout local neighbourhoods and into our homes, businesses and buildings.

**Is it okay to live next to a substation?** If you value reliable energy supply and potential cost savings, living near a substation may be a good option for you. However, if you're concerned about the potential health risks associated with EMFs or if you're sensitive to noise pollution, it may be better to look for a property further away from a substation.

**What is the difference between electrical station and substation?** The main difference we find between a transformer station and an electrical substation is the magnitude of the installations. While transformer stations are linked to high/medium-voltage transmission systems, electrical substations are designed to support and transform lower voltages.

**What is an example of a substation?** Examples for such substations are Brauweiler in Germany and Hradec in the Czech Republic, where power is collected from nearby lignite-fired power plants. If no transformers are required for increasing the voltage to transmission level, the substation is a switching station.

**How do I start a hydroponic garden for beginners?**

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**What 3 things do you need for hydroponics?** To grow hydroponically, you need plants, a container, water, a way to anchor the plants, nutrients and a light source.

**How do you make a hydroponic system step by step?**

**How long does it take to grow a plant using hydroponics?** Some plants can grow as much as 50% faster in hydroponic systems -up to 5x faster when grow lights are added. Growing lettuce indoors hydroponically can reach harvest in only 30 days instead of 60 days when grown in soil.

**What is the easiest thing to grow hydroponically?** Lettuces They grow super fast in a hydroponic system and are fairly easy to take care of. Lettuces can be grown in any Hydroponics system, including the NFT, Aeroponics, Ebb & Flow, etc. This vegetable is no doubt a great plant if you just start with Hydroponics.

**What is the cheapest way to start hydroponics?** For the easiest and lowest cost entry point into hydroponic gardening, the wick system is often the best way to go. Materials are inexpensive and the build is simple.

**What are 3 things that we can't grow hydroponically?** In fact, pretty much the only plants that don't adapt well to hydroponic gardening are ones that need a lot of space to sprawl, climb, or grow (like vines and trees) and root crops (think potatoes, carrots, onions).

**What grows best in hydroponics?**

**What indoor plants can be grown hydroponically?**

**What is the easiest hydroponic method?** Kratky is by far the easiest method of hydroponic gardening. Many systems require water pumps and air pumps. Kratky however, doesn't need either. If you keep your system in a sunny window, in your yard, or on a balcony, you don't even need a grow light.

**What plant food to use for hydroponics?** Water Soluble Fertilizers (WSF) are a great source of nutrients to use for growing indoor hydroponic crops. WSF products, such as General Hydroponics® FloraPro®, are fertilizer blends produced from high quality, technical grade fertilizer salts in dry, powder form.



## **Do hydroponics need sunlight?**

**What grows the fastest in hydroponics?** There are several plants that are known to be the fastest growing plants for hydroponic gardens. With these plants, you'll be upping your yields like never before! Lettuce (Bibb, butter crunch, and romaine) – Leafy veggies like lettuce are fast growers on their own right.

**Can a plant be grown in just water in hydroponics?** If you have a hard time following a watering schedule, which can ultimately lead to the death of your plants, consider growing your greenery hydroponically, instead. Many popular houseplants, like monstera and philodendron, can grow in a container of water without soil.

## **How can I speed up my hydroponic growth?**

**What is the easiest fruit to grow hydroponically?** Wonderful for beginners, strawberries are one of the most popular and easiest fruits to grow in hydroponic or aquaponic systems. They thrive within systems at any scale, and are well suited to a hydroponic system that employs the nutrient film technique, or in vertical tower systems.

## **Which vegetables grow best in hydroponics?**

**What plants are not growing in hydroponics?** An off-kilter pH level is one of the most common reasons for plant die-offs in a hydroponic system. It's incredibly important to monitor pH levels because all your plants live in the same nutrient solution – if your pH is bad for one plant, all your plants could suffer!

## **How do I start hydroponics for beginners?**

## **How to make DIY hydroponics?**

## **What is the most profitable thing to grow hydroponically?**

**What is the easiest DIY hydroponic system for beginners?** Deep Water Culture (DWC) is the easiest type of hydroponic system that you can build and maintain at home. In this system, the plants grow with their roots submerged directly in nutrient-rich water. For home growers, this can be achieved by growing in large opaque storage containers or buckets.

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## What grows best in hydroponics?

**How much does it cost to start a hydroponic system?** A hydroponic garden costs \$300 to \$1,000 , with a national average of \$650 . Unlike your average garden, which requires soil, hydroponic gardens use water and nutrients to grow plants, hydroponic gardens grow plants by using mineral nutrient solutions—all without soil.

**How difficult could it be to start a hydroponic system?** If you're thinking about trying hydroponics, you'll be happy to know that going hydro isn't hard. Even if you're new to growing, you can enjoy the faster growth, bigger yields and year-round harvests hydroponics bring. But first, take time to learn what you'll need to succeed with the crops you want to grow.

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