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## Vocabulary Builder Reference from...

Kelli Sandman-Hurley: What is dyslexia? | TED Talk  
[https://www.ted.com/talks/kelli\\_sandman\\_hurley\\_what\\_is\\_dyslexia](https://www.ted.com/talks/kelli_sandman_hurley_what_is_dyslexia)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### dyslexia

*n.* a neurological condition that affects a person's ability to read, write, and spell, often despite normal or above-average intelligence, effective teaching, and adequate motivation, which is characterized by difficulty in the phonological coding of written words, poor phonological awareness, and poor reading fluency and decoding skills

*synonym*: reading disability, word blindness, dysgraphia

(1) student with **dyslexia**, (2) diagnosis of **dyslexia**

Educators need to understand how **dyslexia** affects students' reading abilities.

### decode

*v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand

*synonym*: decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

### laborious

*adj.* requiring a lot of effort and time to complete; characterized by tedious or difficult work

*synonym*: arduous, difficult, strenuous

(1) **laborious** routine, (2) **laborious** project

The construction workers had a **laborious** job of carrying heavy equipment up several flights of stairs.

## phonology

*n.* the study of the sound patterns of a language, including the distribution and organization of speech sounds; the study of the structure and systematic organization of speech sounds in languages

*synonym*: phonemics, sound patterns, sound structures

(1) **phonology** rules, (2) **phonology** of English

The study of **phonology** concerns the systematic organization of sounds in a language.

## tic

*n.* a sudden, involuntary muscular contraction or movement, often repetitive in nature; a habitual and often unconscious behavior or mannerism

*synonym*: twitch, spasm, jerk

(1) developmental **tic**, (2) facial **tic**

My nervous **tic** makes it hard for me to concentrate during important events.

## phonetic

*adj.* of or relating to speech sounds or scientific study of speech sound

*synonym*: vocal, spoken, phonic

(1) **phonetic** spelling, (2) **phonetic** sounds

A **phonetic** symbol for each word is listed before the definition.

## syllable

*n.* a single unit of spoken language more significant than a phoneme containing a vowel sound and usually one or more consonants

(1) **syllable** structure, (2) single **syllable**

Emphasize the second **syllable** when pronouncing it.

## neurodiversity

*n.* the concept that neurological differences, such as autism or ADHD, are a natural and valuable part of human diversity rather than a disorder or deficiency to be fixed

*synonym*:

neurodivergence, cognitive diversity

(1) **neurodiversity** conference, (2) **neurodiversity** spectrum

The concept of **neurodiversity** celebrates the different ways that people's brains work.

## deviate

*v.* to depart from an established course or plan; to change direction or take a different route or approach

*synonym*: stray, diverge, veer

(1) **deviate** from the norm, (2) **deviate** from the plan

It's important not to **deviate** from the established safety procedures.

## pathological

*adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy

*synonym*: aberrant, diseased, abnormal

(1) **pathological** liar, (2) **pathological** condition

The doctor was concerned that the patient's **pathological** fear of germs impacted their daily life.

## neurobiology

*n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion

*synonym*: brain science, neural science, neurology

(1) **neurobiology** research, (2) cellular **neurobiology**

The professor's research in **neurobiology** has led to groundbreaking discoveries in the field of brain science.

## inventive

*adj.* able to come up with novel and unique ideas

*synonym*: imaginative, creative, innovative

(1) have the **inventive** talent, (2) **inventive** approach

All language around the world is consistently **inventive** but not intrusive.

## hemisphere

*n.* half of the terrestrial globe; half of a sphere

(1) northern **hemisphere**, (2) cerebral **hemisphere**

This weather pattern is unique to the southern **hemisphere**.

## MRI

*n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body

(1) **MRI** brain image, (2) cardiac **MRI**

The **MRI** machine uses powerful magnets to produce detailed images of the inside of the body.

## lobe

*n.* a rounded projection or division, especially of the brain, lung, or liver

*synonym* : part, section, division

(1) **lobe** of the liver, (2) frontal **lobe**

The lungs are divided into five **lobes**.

## glitch

*n.* a minor problem or malfunction, especially in a computer program, system, or machine

*synonym* : malfunction, bug, fault

(1) computer **glitch**, (2) unanticipated **glitch**

The computer system had a minor **glitch** that caused a delay.

## improvisation

*n.* the act of making something up on the spot or creating or performing something without preparation

*synonym* : spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

## Session 2: Spelling

1. neu\_\_\_\_\_ity conference *n.* the concept that neurological differences, such as autism or ADHD, are a natural and valuable part of human diversity rather than a disorder or deficiency to be fixed
2. de\_\_\_\_\_e from the norm *v.* to depart from an established course or plan; to change direction or take a different route or approach
3. have the in\_\_\_\_\_ve talent *adj.* able to come up with novel and unique ideas
4. pat\_\_\_\_\_cal liar *adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy
5. northern hem\_\_\_\_\_re *n.* half of the terrestrial globe; half of a sphere
6. M\_I brain image *n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
7. cardiac M\_I *n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
8. ph\_\_\_\_\_gy rules *n.* the study of the sound patterns of a language, including the distribution and organization of speech sounds; the study of the structure and systematic organization of speech sounds in languages

ANSWERS: 1. neurodiversity, 2. deviate, 3. inventive, 4. pathological, 5. hemisphere, 6. MRI, 7. MRI, 8. phonology



16. ph\_\_\_\_ic spelling *adj.* of or relating to speech sounds or scientific study of speech sound
17. pat\_\_\_\_\_cal condition *adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy
18. de\_\_\_e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
19. in\_\_\_\_\_ve approach *adj.* able to come up with novel and unique ideas
20. ph\_\_\_\_\_gy of English *n.* the study of the sound patterns of a language, including the distribution and organization of speech sounds; the study of the structure and systematic organization of speech sounds in languages
21. student with dy\_\_\_\_\_ia *n.* a neurological condition that affects a person's ability to read, write, and spell, often despite normal or above-average intelligence, effective teaching, and adequate motivation, which is characterized by difficulty in the phonological coding of written words, poor phonological awareness, and poor reading fluency and decoding skills
22. de\_\_\_\_\_e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach

ANSWERS: 16. phonetic, 17. pathological, 18. decode, 19. inventive, 20. phonology, 21. dyslexia, 22. deviate

23. unanticipated gl\_\_\_h *n.* a minor problem or malfunction, especially in a computer program, system, or machine
24. neu\_\_\_\_\_ogy research *n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion
25. sy\_\_\_\_\_le structure *n.* a single unit of spoken language more significant than a phoneme containing a vowel sound and usually one or more consonants
26. ph\_\_\_\_\_ic sounds *adj.* of or relating to speech sounds or scientific study of speech sound
27. ability to de\_\_\_e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
28. cerebral hem\_\_\_\_\_re *n.* half of the terrestrial globe; half of a sphere
29. jazz imp\_\_\_\_\_ion *n.* the act of making something up on the spot or creating or performing something without preparation
30. computer gl\_\_\_h *n.* a minor problem or malfunction, especially in a computer program, system, or machine

ANSWERS: 23. glitch, 24. neurobiology, 25. syllable, 26. phonetic, 27. decode, 28. hemisphere, 29. improvisation, 30. glitch



31. l\_\_e of the liver *n.* a rounded projection or division, especially of the brain, lung, or liver
32. imp\_\_\_\_\_ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
33. cellular neu\_\_\_\_\_ogy *n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion
34. frontal l\_\_e *n.* a rounded projection or division, especially of the brain, lung, or liver

ANSWERS: 31. lobe, 32. improvisation, 33. neurobiology, 34. lobe

## Session 3: Fill in the Blanks

1. The construction workers had a \_\_\_\_\_ job of carrying heavy equipment up several flights of stairs.

*adj.* requiring a lot of effort and time to complete; characterized by tedious or difficult work

2. The study of \_\_\_\_\_ concerns the systematic organization of sounds in a language.

*n.* the study of the sound patterns of a language, including the distribution and organization of speech sounds; the study of the structure and systematic organization of speech sounds in languages

3. A \_\_\_\_\_ symbol for each word is listed before the definition.

*adj.* of or relating to speech sounds or scientific study of speech sound

4. Emphasize the second \_\_\_\_\_ when pronouncing it.

*n.* a single unit of spoken language more significant than a phoneme containing a vowel sound and usually one or more consonants

5. The software could \_\_\_\_\_ the encrypted data and reveal the hidden information.

*v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand

6. The lungs are divided into five \_\_\_\_\_.

*n.* a rounded projection or division, especially of the brain, lung, or liver

7. The doctor was concerned that the patient's \_\_\_\_\_ fear of germs impacted their daily life.

*adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy

ANSWERS: 1. laborious, 2. phonology, 3. phonetic, 4. syllable, 5. decode, 6. lobes, 7. pathological

8. It's important not to \_\_\_\_\_ from the established safety procedures.
- v.* to depart from an established course or plan; to change direction or take a different route or approach
9. The computer system had a minor \_\_\_\_\_ that caused a delay.
- n.* a minor problem or malfunction, especially in a computer program, system, or machine
10. All language around the world is consistently \_\_\_\_\_ but not intrusive.
- adj.* able to come up with novel and unique ideas
11. My nervous \_\_\_\_ makes it hard for me to concentrate during important events.
- n.* a sudden, involuntary muscular contraction or movement, often repetitive in nature; a habitual and often unconscious behavior or mannerism
12. The concept of \_\_\_\_\_ celebrates the different ways that people's brains work.
- n.* the concept that neurological differences, such as autism or ADHD, are a natural and valuable part of human diversity rather than a disorder or deficiency to be fixed
13. He created a beautiful piece of music using only \_\_\_\_\_.
- n.* the act of making something up on the spot or creating or performing something without preparation
14. Educators need to understand how \_\_\_\_\_ affects students' reading abilities.
- n.* a neurological condition that affects a person's ability to read, write, and spell, often despite normal or above-average intelligence, effective teaching, and adequate motivation, which is characterized by difficulty in the phonological coding of written words, poor phonological awareness, and poor reading fluency and decoding skills

ANSWERS: 8. deviate, 9. glitch, 10. inventive, 11. tic, 12. neurodiversity, 13. improvisation, 14. dyslexia

15. The professor's research in \_\_\_\_\_ has led to groundbreaking discoveries in the field of brain science.
- n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion
16. This weather pattern is unique to the southern \_\_\_\_\_.
- n.* half of the terrestrial globe; half of a sphere
17. The \_\_\_ machine uses powerful magnets to produce detailed images of the inside of the body.
- n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body

ANSWERS: 15. neurobiology, 16. hemisphere, 17. MRI