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## Vocabulary Builder Reference from...

Alexandra Horowitz: How do dogs "see" with their noses? | TED Talk

[https://www.ted.com/talks/alexandra\\_horowitz\\_how\\_dogs\\_see\\_with\\_their\\_noses](https://www.ted.com/talks/alexandra_horowitz_how_dogs_see_with_their_noses)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### sponge

*n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning

(1) sea **sponge**, (2) metallic **sponge**

The tiny marine **sponge** has existed for more than 500 million years.

### nostril

*n.* either of the two openings in the nose through which air is breathed

*synonym*: nose hole, nasal passage, naris

(1) bleeding **nostril**, (2) clogged **nostril**

She had a tissue ready to wipe her **nostril** after a sneeze.

### determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

*synonym*: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## sniff

*v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

*synonym* : smell, inhale, scent

(1) **sniff** the air, (2) **sniff** the perfume

The dog stopped to **sniff** around the tree, looking for something interesting.

## airflow

*n.* the flow of air, especially around a moving object such as an aircraft or vehicle

*synonym* : current, breeze, breath

(1) **airflow** duct, (2) high-speed **airflow**

They thoroughly tested the **airflow** around their latest formula car.

## olfactory

*adj.* relating to the sense of smell; connected with the perception of odors or scents

*synonym* : olfactive, scent-based, aromatic

(1) **olfactory** cortex, (2) **olfactory** memory

The **olfactory** senses play a key role in our taste and flavor perception.

## clumsy

*adj.* lacking in grace or skill; awkward; cumbersome

*synonym* : awkward, ungainly, inept

(1) **clumsy** at sports, (2) **clumsy** attempt

The **clumsy** waiter accidentally spilled a tray of drinks on a customer.

## exhale

*v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

*synonym* : breathe out, expel, emit

(1) **exhale** a big sigh, (2) **exhale** cigarette smoke

He took a deep breath and slowly began to **exhale**.

## slit

*n.* a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp

instrument such as a knife or scissors

*synonym* : slash, incision, cut

(1) **slit** pocket, (2) **slit** the fabric

He made a small **slit** in the paper to fit it in the envelope.

## swirl

v. to move in a circular or spiral pattern

*synonym* : spin, whirl, turn

(1) **swirl** the wine, (2) **swirl** up dirt and dust

The chef expertly **swirled** the sauce onto the plate.

## dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

*synonym* : consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

## spritz

v. to spray or moisten something lightly with a fine mist or spray of liquid, often for refreshing, cooling, or adding flavor

*synonym* : spray, douse, mist

(1) **spritz** perfume, (2) **spritz** with water

The bartender will **spritz** the drink with sparkling water for a refreshing twist.

## enclose

v. to surround, as with a fence, wall, or barrier; to put within boundaries; to include

*synonym* : surround, encase, contain

(1) **enclose** a check with a letter, (2) **enclose** area

The walls were **enclosed** to create a private outdoor space.

## vomer nasal

*adj.* relating to a specialized sense organ in certain animals, such as reptiles and mammals, that detects pheromones and other chemical signals related to social behaviors and reproductive activities

*synonym* : nasal, olfactory

(1) **vomeronasal** neuron, (2) **vomeronasal** response

The **vomeronasal** organ is responsible for sensing pheromones in some animals, such as reptiles and mammals.

## olfaction

*n.* the sense of smell; the ability to detect and perceive odors or scents

*synonym* : smell, scent, aroma

(1) **olfaction** testing, (2) **olfaction** receptors

Some animals have better **olfaction** than humans, enabling them to detect prey from farther away.

## primal

*adj.* of or relating to the earliest stage of development; fundamental; primitive

*synonym* : original, fundamental, basic

(1) **primal** eras, (2) **primal** fear

The **primal** instincts of the animal kicked in when it was threatened.

## thalamus

*n.* a midline, interbrain structure that forms a major part of the brain's sensory and motor pathways, receiving signals from various body parts and sending them to appropriate parts of the cerebral cortex for processing

*synonym* : sensory gateway, brainstem

(1) **thalamus** function, (2) **thalamus** injury

Damage to the **thalamus** can lead to sensory processing disorders and disruptions in perception.

## instinct

*n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true

*synonym* : intuition, aptitude, feeling

(1) **instinct** for self-preservation, (2) aggressive **instinct**

When faced with a dangerous situation, his initial **instinct** was to flee.

## visceral

*adj.* relating to or affecting the internal organs; instinctive or emotional rather than rational; characterized by deep-seated emotional reactions or responses

*synonym* : instinctive, intuitive, gut

(1) **visceral** organ, (2) **visceral** fear

After watching the horror movie, she had a **visceral** reaction and couldn't sleep all night.

## traverse

*v.* to cross or move through a land or water area

*synonym* : cross, pass through, travel over

(1) **traverse** the region, (2) **traverse** a vast extent of sea

Approximately 1000 automobiles **traverse** the bridge every day.

## passersby

*n.* people who are walking past a particular place often used to refer to a group of people or an undefined number of individuals

*synonym* : bystanders, onlookers, observers

(1) **passersby** on the sidewalk, (2) group of **passersby**

The busy street was filled with **passersby** hurrying to their destinations.

## hydrant

*n.* a pipe with a valve and spout, usually located on streets and used for drawing water, especially for firefighting purposes

*synonym* : fireplug, tap, spigot

(1) **hydrant** valve, (2) fire **hydrant**

The residents reported a leaky **hydrant** in their community, prompting the city to dispatch a maintenance crew

## aromatic

*adj.* having a strong, sweet smell; fragrant

*synonym* : fragrant, perfumed, redolent

(1) **aromatic** soap, (2) **aromatic** spices

The **aromatic** herbs and spices in the dish made my mouth water.

## canine

*adj.* relating to or characteristic of dogs or the dog family; having qualities that are similar to those of dogs, such as loyalty or aggressiveness

*synonym* : laniary, dog-like, doggy

(1) **canine** behavior, (2) **canine** teeth

The veterinarian recommended a **canine-friendly** diet for my dog's health.

## recognizable

*adj.* easy to become aware of or identify

*synonym* : noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

## rev

*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

*synonym* : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

## Session 2: Spelling

1. ar\_\_\_\_ic spices *adj.* having a strong, sweet smell; fragrant
2. r\_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
3. hy\_\_\_\_t valve *n.* a pipe with a valve and spout, usually located on streets and used for drawing water, especially for firefighting purposes
4. sea sp\_\_\_\_e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
5. tr\_\_\_\_se the region *v.* to cross or move through a land or water area
6. vi\_\_\_\_al fear *adj.* relating to or affecting the internal organs; instinctive or emotional rather than rational; characterized by deep-seated emotional reactions or responses
7. s\_\_t pocket *n.* a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors

ANSWERS: 1. aromatic, 2. rev, 3. hydrant, 4. sponge, 5. traverse, 6. visceral, 7. slit

8. ol\_\_\_\_\_on testing *n.* the sense of smell; the ability to detect and perceive odors or scents
9. cl\_\_\_y attempt *adj.* lacking in grace or skill; awkward; cumbersome
10. vi\_\_\_\_\_al organ *adj.* relating to or affecting the internal organs; instinctive or emotional rather than rational; characterized by deep-seated emotional reactions or responses
11. vom\_\_\_\_\_al response *adj.* relating to a specialized sense organ in certain animals, such as reptiles and mammals, that detects pheromones and other chemical signals related to social behaviors and reproductive activities
12. ex\_\_\_e a big sigh *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
13. en\_\_\_\_\_e a check with a letter *v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include
14. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
15. high-speed ai\_\_\_\_\_w *n.* the flow of air, especially around a moving object such as an aircraft or vehicle
16. ar\_\_\_\_\_ic soap *adj.* having a strong, sweet smell; fragrant

ANSWERS: 8. olfaction, 9. clumsy, 10. visceral, 11. vomeronasal, 12. exhale, 13. enclose, 14. determinant, 15. airflow, 16. aromatic



17. th\_\_\_\_us injury *n.* a midline, interbrain structure that forms a major part of the brain's sensory and motor pathways, receiving signals from various body parts and sending them to appropriate parts of the cerebral cortex for processing
18. en\_\_\_\_e area *v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include
19. pr\_\_\_\_l eras *adj.* of or relating to the earliest stage of development; fundamental; primitive
20. th\_\_\_\_us function *n.* a midline, interbrain structure that forms a major part of the brain's sensory and motor pathways, receiving signals from various body parts and sending them to appropriate parts of the cerebral cortex for processing
21. tr\_\_\_\_se a vast extent of sea *v.* to cross or move through a land or water area
22. sn\_\_f the perfume *v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
23. a det\_\_\_\_nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
24. fire hy\_\_\_\_t *n.* a pipe with a valve and spout, usually located on streets and used for drawing water, especially for firefighting purposes

ANSWERS: 17. thalamus, 18. enclose, 19. primal, 20. thalamus, 21. traverse, 22. sniff, 23. determinant, 24. hydrant

25. ol\_\_\_\_\_on receptors *n.* the sense of smell; the ability to detect and perceive odors or scents
26. in\_\_\_\_\_ct for self-preservation *n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
27. sp\_\_\_\_z perfume *v.* to spray or moisten something lightly with a fine mist or spray of liquid, often for refreshing, cooling, or adding flavor
28. sw\_\_l up dirt and dust *v.* to move in a circular or spiral pattern
29. ca\_\_\_\_e teeth *adj.* relating to or characteristic of dogs or the dog family; having qualities that are similar to those of dogs, such as loyalty or aggressiveness
30. ai\_\_\_\_\_w duct *n.* the flow of air, especially around a moving object such as an aircraft or vehicle
31. metallic sp\_\_\_\_e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
32. s\_\_t the fabric *n.* a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors
33. cl\_\_\_\_y at sports *adj.* lacking in grace or skill; awkward; cumbersome

ANSWERS: 25. olfaction, 26. instinct, 27. spritz, 28. swirl, 29. canine, 30. airflow, 31. sponge, 32. slit, 33. clumsy

34. clogged no\_\_\_\_l *n.* either of the two openings in the nose through which air is breathed
35. vom\_\_\_\_\_al neuron *adj.* relating to a specialized sense organ in certain animals, such as reptiles and mammals, that detects pheromones and other chemical signals related to social behaviors and reproductive activities
36. pr\_\_\_\_l fear *adj.* of or relating to the earliest stage of development; fundamental; primitive
37. de\_\_\_\_\_te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
38. sp\_\_\_\_z with water *v.* to spray or moisten something lightly with a fine mist or spray of liquid, often for refreshing, cooling, or adding flavor
39. pa\_\_\_\_\_by on the sidewalk *n.* people who are walking past a particular place often used to refer to a group of people or an undefined number of individuals
40. sn\_\_f the air *v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
41. aggressive in\_\_\_\_\_ct *n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
42. sw\_\_l the wine *v.* to move in a circular or spiral pattern

ANSWERS: 34. nostril, 35. vomeronasal, 36. primal, 37. dedicate, 38. spritz, 39. passersby, 40. sniff, 41. instinct, 42. swirl

43. ol\_\_\_\_\_ry memory *adj.* relating to the sense of smell; connected with the perception of odors or scents
44. ol\_\_\_\_\_ry cortex *adj.* relating to the sense of smell; connected with the perception of odors or scents
45. low-r\_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
46. to a rec\_\_\_\_\_ble degree *adj.* easy to become aware of or identify
47. bleeding no\_\_\_\_\_l *n.* either of the two openings in the nose through which air is breathed
48. rec\_\_\_\_\_ble landmark *adj.* easy to become aware of or identify
49. ex\_\_\_e cigarette smoke *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
50. group of pa\_\_\_\_\_by *n.* people who are walking past a particular place often used to refer to a group of people or an undefined number of individuals
51. ca\_\_\_e behavior *adj.* relating to or characteristic of dogs or the dog family; having qualities that are similar to those of dogs, such as loyalty or aggressiveness
52. de\_\_\_\_\_te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

ANSWERS: 43. olfactory, 44. olfactory, 45. rev, 46. recognizable, 47. nostril, 48. recognizable, 49. exhale, 50. passersby, 51. canine, 52. dedicate

ANSWERS:

## Session 3: Fill in the Blanks

1. When faced with a dangerous situation, his initial \_\_\_\_\_ was to flee.  
*n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
2. Damage to the \_\_\_\_\_ can lead to sensory processing disorders and disruptions in perception.  
*n.* a midline, interbrain structure that forms a major part of the brain's sensory and motor pathways, receiving signals from various body parts and sending them to appropriate parts of the cerebral cortex for processing
3. The bartender will \_\_\_\_\_ the drink with sparkling water for a refreshing twist.  
*v.* to spray or moisten something lightly with a fine mist or spray of liquid, often for refreshing, cooling, or adding flavor
4. The \_\_\_\_\_ senses play a key role in our taste and flavor perception.  
*adj.* relating to the sense of smell; connected with the perception of odors or scents
5. The chef expertly \_\_\_\_\_ the sauce onto the plate.  
*v.* to move in a circular or spiral pattern
6. He made a small \_\_\_\_\_ in the paper to fit it in the envelope.  
*n.* a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors
7. The \_\_\_\_\_ instincts of the animal kicked in when it was threatened.  
*adj.* of or relating to the earliest stage of development; fundamental; primitive

ANSWERS: 1. instinct, 2. thalamus, 3. spritz, 4. olfactory, 5. swirled, 6. slit, 7. primal

8. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
9. The busy street was filled with \_\_\_\_\_ hurrying to their destinations.
- n.* people who are walking past a particular place often used to refer to a group of people or an undefined number of individuals
10. The tiny marine \_\_\_\_\_ has existed for more than 500 million years.
- n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
11. He stepped on the gas pedal, and the engine released a loud \_\_\_\_\_.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
12. He took a deep breath and slowly began to \_\_\_\_\_.
- v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
13. The residents reported a leaky \_\_\_\_\_ in their community, prompting the city to dispatch a maintenance crew
- n.* a pipe with a valve and spout, usually located on streets and used for drawing water, especially for firefighting purposes
14. Approximately 1000 automobiles \_\_\_\_\_ the bridge every day.
- v.* to cross or move through a land or water area

ANSWERS: 8. determinant, 9. passersby, 10. sponge, 11. rev, 12. exhale, 13. hydrant, 14. traverse

15. She had a tissue ready to wipe her \_\_\_\_\_ after a sneeze.

*n.* either of the two openings in the nose through which air is breathed

16. The walls were \_\_\_\_\_ to create a private outdoor space.

*v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include

17. The \_\_\_\_\_ organ is responsible for sensing pheromones in some animals, such as reptiles and mammals.

*adj.* relating to a specialized sense organ in certain animals, such as reptiles and mammals, that detects pheromones and other chemical signals related to social behaviors and reproductive activities

18. He \_\_\_\_\_ his life to helping others.

*v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

19. They thoroughly tested the \_\_\_\_\_ around their latest formula car.

*n.* the flow of air, especially around a moving object such as an aircraft or vehicle

20. Some animals have better \_\_\_\_\_ than humans, enabling them to detect prey from farther away.

*n.* the sense of smell; the ability to detect and perceive odors or scents

21. His car was easily \_\_\_\_\_ in the parking lot.

*adj.* easy to become aware of or identify

22. The dog stopped to \_\_\_\_\_ around the tree, looking for something interesting.

*v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

ANSWERS: 15. nostril, 16. enclosed, 17. vomeronasal, 18. dedicated, 19. airflow, 20. olfaction, 21. recognizable, 22. sniff



23. The \_\_\_\_\_ herbs and spices in the dish made my mouth water.

*adj.* having a strong, sweet smell; fragrant

24. The veterinarian recommended a \_\_\_\_\_ diet for my dog's health.

*adj.* relating to or characteristic of dogs or the dog family; having qualities that are similar to those of dogs, such as loyalty or aggressiveness

25. After watching the horror movie, she had a \_\_\_\_\_ reaction and couldn't sleep all night.

*adj.* relating to or affecting the internal organs; instinctive or emotional rather than rational; characterized by deep-seated emotional reactions or responses

26. The \_\_\_\_\_ waiter accidentally spilled a tray of drinks on a customer.

*adj.* lacking in grace or skill; awkward; cumbersome

ANSWERS: 23. aromatic, 24. canine-friendly, 25. visceral, 26. clumsy