# **Englist.me**

## Vocabulary Builder Reference from...

Jacques S. Abramowicz: How does ultrasound work? | TED Talk https://www.ted.com/talks/jacques\_s\_abramowicz\_ho w\_does\_ultrasound\_work



### Advanced Words Only

#### IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

## Session 1: Word List

topography	<ul> <li>n. the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features</li> <li>synonym: terrain, landscape, geography</li> </ul>				
	(1) topography map, (2) detailed topography				
	The <b>topography</b> of the region is rugged, with many hills and valleys.				
vibrate	<ul> <li>v. to move or cause anything to move fast and in small increments from side to side</li> <li>synonym: oscillate, convulse, jerk</li> </ul>				
	(1) vibrate at a regular frequency, (2) vibrate with anger				
	During the flight, the wings of the plane vibrate.				
determinant	<ul> <li>n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result</li> <li>synonym: cause, factor, element</li> </ul>				
	(1) environmental <b>determinant</b> , (2) a <b>determinant</b> of crop yields				
	One <b>determinant</b> of success is having a positive attitude and				

a strong work ethic.

hertz	<ul> <li>n. the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals</li> <li>synonym: frequency, cycles per second</li> <li>(1) audio hertz, (2) tera- hertz radiation</li> <li>The human ear can detect sounds with frequencies ranging from 20 to 20,000 hertz.</li> </ul>		
humming	<ul><li><i>adj.</i> producing a continuous, low, vibrating sound like that of the bee</li><li><i>synonym</i>: buzzing, droning, vibrating</li></ul>		
	(1) humming sound, (2) humming bird		
	The <b>humming</b> of the bees filled the air as she walked through the garden.		
emit	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> <li>synonym: give off, radiate, expel</li> </ul>		
	(1) <b>emit</b> a gamma ray, (2) <b>emit</b> air pollution		
	During the unloading, the container box <b>emits</b> a clicking sound.		
nook	<ul> <li><i>n</i>. a small corner, alcove, or recess, especially one in a room or garden providing a seat or space for quiet</li> <li><i>synonym</i>: niche, corner, alcove</li> </ul>		
	(1) every <b>nook</b> and cranny, (2) breakfast <b>nook</b>		
	The kitchen <b>nook</b> was perfect for coffee and chatting with		
	friends.		
cranny	<i>n</i> . a small, narrow opening or crack, especially in a wall or rock		
	synonym: crevice, nook, niche		
	(1) a <b>cranny</b> in the corner, (2) look in every nook and <b>cranny</b>		

The mouse squeezed into the tiniest cranny of the wall to avoid being caught by the cat. *n*. a subtle or slight degree of difference in appearance, meaning, sound, someone's feeling, etc. *synonym*: shading, refinement, subtlety
(1) rich in nuance, (2) subtle cultural nuance
The painter has tried to express every nuance of the

woman's expression in his work.

 

 gallbladder
 n.
 a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion

synonym: cholecyst

nuance

(1) gallbladder surgery, (2) gallbladder diseaseEating a fatty meal can trigger gallbladder pain in some people.

clot n. a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force synonym: clump, coagulation, thrombus

(1) blood **clot**, (2) **clot** prevention

The **clot** in the blood vessel required immediate medical attention.

fetus n. an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal

(1) development of the **fetus**, (2) an aborted **fetus**The female vagina is elastic enough to allow the passage of a **fetus**.

airtight *adj.* tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable

synonym: hermetic, watertight

	(1) airtight container, (2) airtight seal
	The container was <b>airtight</b> , keeping the food fresh for longer.
wand	<ul> <li>n. a slender rod or stick, especially one used for magic or divination; a rod or staff carried by certain officials as a symbol of authority</li> <li>synonym: rod, stick, staff</li> </ul>
	(1) magic <b>wand</b> , (2) security <b>wand</b>
	The magician waved his <b>wand,</b> and a rabbit appeared from the hat.
amnion	<ul> <li>n. the innermost sac that surrounds and protects the fetus during pregnancy, filled with amniotic fluid which cushions and protects the fetus</li> <li>synonym: fetal membrane</li> </ul>
	(1) <b>amnion</b> membrane, (2) rupture of the <b>amnion</b>
	The <b>amnion</b> fluid sample was sent for genetic testing to
	determine chromosomal abnormalities.
penetrate	v. to pass into or through something, often by overcoming resistance
	synonym: pierce, stab, go through
	(1) <b>penetrate</b> a cell, (2) <b>penetrate</b> quickly into the skin
	Western ideology slowly <b>penetrates</b> through the eastern countries.
cascade	<ul> <li>n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units synonym: waterfall, watercourse, step</li> </ul>
	(1) cascade connection, (2) transistor cascade
	The cascade of waterfalls in the national park was a
	breathtaking sight.
visualize	<ul> <li>v. to form a mental image or concept of something; to make something visible</li> </ul>
	synonym: imagine, picture, envision
	(1) <b>visualize</b> data, (2) <b>visualize</b> flying through space

She tried to **visualize** the layout of the new house in her mind.

deviate	<ul> <li>v. to depart from an established course or plan; to change direction or take a different route or approach</li> <li>synonym: stray, diverge, veer</li> </ul>
	(1) <b>deviate</b> from the norm, (2) <b>deviate</b> from the plan
	It's important not to <b>deviate</b> from the established safety procedures.
natal	<ul><li>adj. relating to birth or the place of one's birth; connected with the beginning or origin of something</li><li>synonym: birth, nativity, born</li></ul>
	(1) natal chart, (2) natal clinic
	The mother-to-be attended <b>natal</b> classes to prepare for the birth of her first child.

# **Session 2: Spelling**

1.	detailed tophy	n.	the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features
2.	a cry in the corner	n.	a small, narrow opening or crack, especially in a wall or rock
3.	an aborted fes	n.	an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
4.	look in every nook and cry	n.	a small, narrow opening or crack, especially in a wall or rock
5.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
6.	rupture of the amn	n.	the innermost sac that surrounds and protects the fetus during pregnancy, filled with amniotic fluid which cushions and protects the fetus
7.	vie with anger	v.	to move or cause anything to move fast and in small increments from side to side
8.	hug sound	adj.	producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 1. topography, 2. cranny, 3. fetus, 4. cranny, 5. determinant, 6. amnion, 7. vibrate, 8. humming

9.	magic wd	n.	a slender rod or stick, especially one used for magic or divination; a rod or staff carried by certain officials as a symbol of authority
10.	every nk and cranny	n.	a small corner, alcove, or recess, especially one in a room or garden providing a seat or space for quiet
11.	vize flying through space	v.	to form a mental image or concept of something; to make something visible
12.	blood ct	n.	a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
13.	dee from the norm	v.	to depart from an established course or plan; to change direction or take a different route or approach
14.	tophy map	n.	the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features
15.	pete quickly into the skin	v.	to pass into or through something, often by overcoming resistance
16.	ct prevention	n.	a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

ANSWERS: 9. wand, 10. nook, 11. visualize, 12. clot, 13. deviate, 14. topography, 15. penetrate, 16. clot

17. d	ee from the plan	v.	to depart from an established course or plan; to change direction or take a different route or approach
18. vi	ie at a regular frequency	V.	to move or cause anything to move fast and in small increments from side to side
19. bi	reakfast nk	n.	a small corner, alcove, or recess, especially one in a room or garden providing a seat or space for quiet
20. a	detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
21. s	ecurity wd	n.	a slender rod or stick, especially one used for magic or divination; a rod or staff carried by certain officials as a symbol of authority
22. g	aler surgery	n.	a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
23. a	udio hez	n.	the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
24. te	era-hez radiation	n.	the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
25. g	aler disease	n.	a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion

ANSWERS: 17. deviate, 18. vibrate, 19. nook, 20. determinant, 21. wand, 22. gallbladder, 23. hertz, 24. hertz, 25. gallbladder

26.	et air pollution	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
27.	subtle cultural nue	n.	a subtle or slight degree of difference in appearance, meaning, sound, someone's feeling, etc.
28.	nal clinic	adj.	relating to birth or the place of one's birth; connected with the beginning or origin of something
29.	nal chart	adj.	relating to birth or the place of one's birth; connected with the beginning or origin of something
30.	vize data	v.	to form a mental image or concept of something; to make something visible
31.	aiht seal	adj.	tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable
32.	pete a cell	v.	to pass into or through something, often by overcoming resistance
33.	et a gamma ray	v.	to give off or send out something such as light, heat, sound, gas, etc.
34.	development of the fes	n.	an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
35.	amn membrane	n.	the innermost sac that surrounds and protects the fetus during pregnancy, filled with amniotic fluid which cushions and protects the fetus

ANSWERS: 26. emit, 27. nuance, 28. natal, 29. natal, 30. visualize, 31. airtight, 32. penetrate, 33. emit, 34. fetus, 35. amnion

36.	cae connection	n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
37.	rich in nue	n.	a subtle or slight degree of difference in appearance, meaning, sound, someone's feeling, etc.
38.	aiht container	adj.	tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable
39.	transistor cae	n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
40.	hug bird	adj.	producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 36. cascade, 37. nuance, 38. airtight, 39. cascade, 40. humming

# Session 3: Fill in the Blanks

- 1. The mother-to-be attended \_\_\_\_\_ classes to prepare for the birth of her first child.
- *adj.* relating to birth or the place of one's birth; connected with the beginning or origin of something
- 2. The kitchen \_\_\_\_\_ was perfect for coffee and chatting with friends.
- *n.* a small corner, alcove, or recess, especially one in a room or garden providing a seat or space for quiet
- 3. The \_\_\_\_\_\_ of waterfalls in the national park was a breathtaking sight.
- *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
- 4. The container was \_\_\_\_\_\_ keeping the food fresh for longer.
- *adj.* tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable
- 5. The painter has tried to express every \_\_\_\_\_ of the woman's expression in his work.
- *n*. a subtle or slight degree of difference in appearance, meaning, sound, someone's feeling, etc.
- 6. Eating a fatty meal can trigger \_\_\_\_\_ pain in some people.
- *n*. a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
- 7. The female vagina is elastic enough to allow the passage of a \_\_\_\_\_.
- *n*. an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal

ANSWERS: 1. natal, 2. nook, 3. cascade, 4. airtight, 5. nuance, 6. gallbladder, 7. fetus

- 8. The \_\_\_\_\_ in the blood vessel required immediate medical attention.
- *n*. a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
- 9. Western ideology slowly \_\_\_\_\_\_ through the eastern countries.
- *v.* to pass into or through something, often by overcoming resistance
- 10. During the unloading, the container box \_\_\_\_\_ a clicking sound.
  - *v.* to give off or send out something such as light, heat, sound, gas, etc.
- 11. The magician waved his \_\_\_\_\_ and a rabbit appeared from the hat.
- *n.* a slender rod or stick, especially one used for magic or divination; a rod or staff carried by certain officials as a symbol of authority
- 12. The \_\_\_\_\_\_ fluid sample was sent for genetic testing to determine chromosomal abnormalities.
- *n.* the innermost sac that surrounds and protects the fetus during pregnancy, filled with amniotic fluid which cushions and protects the fetus
- 13. The human ear can detect sounds with frequencies ranging from 20 to 20,000
- *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
- 14. She tried to \_\_\_\_\_\_ the layout of the new house in her mind.
- v. to form a mental image or concept of something; to make something visible
- 15. During the flight, the wings of the plane \_\_\_\_\_.
- *v.* to move or cause anything to move fast and in small increments from side to side

ANSWERS: 8. clot, 9. penetrates, 10. emits, 11. wand, 12. amnion, 13. hertz, 14. visualize, 15. vibrate

- 16. 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
- 17. The \_\_\_\_\_\_ of the region is rugged, with many hills and valleys.
- *n*. the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features
- 18. The \_\_\_\_\_\_ of the bees filled the air as she walked through the garden.
- *adj.* producing a continuous, low, vibrating sound like that of the bee
- 19. The mouse squeezed into the tiniest \_\_\_\_\_ of the wall to avoid being caught by the cat.
- *n.* a small, narrow opening or crack, especially in a wall or rock
- 20. 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

ANSWERS: 16. determinant, 17. topography, 18. humming, 19. cranny, 20. deviate