# **Englist.me**

## Vocabulary Builder Reference from...

Angel Chang: The wildly complex anatomy of a sneaker | TED Talk https://www.ted.com/talks/angel\_chang\_the\_wildly\_c omplex\_anatomy\_of\_a\_sneaker



### 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

sneak	<ul> <li>v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily</li> <li>synonym: creep, tiptoe, smuggle</li> </ul>
	(1) <b>sneak</b> a cigarette, (2) <b>sneak</b> out of danger
	The children tried to <b>sneak</b> out and eat the candy.
pave	<ul> <li>v. to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use</li> <li>synonym: surface, coat, cover</li> </ul>
	(1) <b>pave</b> a new path, (2) <b>pave</b> a smoother road
	They <b>paved</b> the courtyard with bricks, giving it a more polished appearance.
industrious	<i>adj.</i> hardworking, diligent, and persistent in effort <i>synonym</i> : diligent, hardworking, assiduous
	(1) industrious worker, (2) industrious student
	He was known to be very industrious and would often work
	late into the night.
footprint	<i>n.</i> a mark of a foot, shoe, or animal's foot left on a surface <i>synonym</i> : footmark, imprint, impression

	(1) <b>footprints</b> in the snow, (2) the <b>footprints</b> of an earlier civilization					
	We choose transportation that has a smaller carbon footprint.					
urethane	<ul> <li>n. a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings</li> <li>synonym: ethyl carbamate</li> </ul>					
	(1) <b>urethane</b> foam, (2) <b>urethane</b> sealant					
	The car's bumper was coated with a <b>urethane</b> layer for extra protection.					
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.					
chromium	<ul> <li>a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel</li> <li>synonym: Cr</li> </ul>					
	(1) <b>chromium</b> mining, (2) <b>chromium</b> supplement					
	<b>Chromium-plated</b> fixtures are popular because of their corrosion resistance.					
carcinogenic	<i>adj.</i> capable of causing cancer or promoting tumor growth; cancer-causing					
	synonym: cancer-causing, cancerous, malignant					
	(1) <b>carcinogenic</b> chemicals, (2) <b>carcinogenic</b> air pollution					
	Long-term exposure to <b>carcinogenic</b> materials can result in serious health problems.					
vulcanization	<i>n.</i> a process of treating rubber or other materials with sulfur or similar chemicals to improve their strength, durability, elasticity, and resistance to heat and cold					

synonym: rubberization, curing

	(1) rubber vulcanization, (2) vulcanization agent The process of vulcanization is essential in creating durable rubber products.
superheat	<ul> <li>v. to heat a substance to a temperature higher than its boiling point</li> <li>synonym: overheat, heat up, scorch</li> </ul>
	(1) superheat the cheese, (2) superheat the solution
	The metal must be <b>superheated</b> before being shaped into the final product.
byproduct	<ul> <li>n. a secondary or incidental product produced in the manufacture or synthesis of something else</li> <li>synonym: side effect, spinoff, outgrowth</li> </ul>
	<ul> <li>(1) toxic byproducts, (2) byproduct of technology</li> <li>The byproduct of the energy production process is a large amount of carbon dioxide emissions.</li> </ul>
disperse	<ul> <li>v. to spread out or distribute over a broad region, or to cause something to do so</li> <li>synonym: dissipate, spread, scatter</li> </ul>
	<ol> <li>(1) disperse false information, (2) disperse the protesters Before authorities dispersed the protesters, they yelled slogans.</li> </ol>
laborer	<ul> <li>n. a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks</li> <li>synonym: worker, employee, operative</li> </ul>
	(1) laborer job, (2) skilled laborer
	The construction site hired many <b>laborers</b> to help with the heavy lifting.
fume	<ul> <li>v. to emit gas, smoke, vapor, or a strong, unpleasant odor;</li> <li>to show anger, irritation, or annoyance in a visible way;</li> <li>(noun) gas or vapor that is emitted from a substance,</li> </ul>

	usually as a result of heating or combustion synonym: smoke, vaporize, emit				
	(1) <b>fume</b> with anger, (2) acrid <b>fumes</b>				
	The angry customer began to <b>fume</b> when their order was delayed.				
recycle	<ul> <li>v. to sort and collect things to process them and produce valuable materials that can be used again</li> <li>synonym: reclaim, reuse, reprocess</li> </ul>				
	(1) <b>recycle</b> the cardboard boxes, (2) <b>recycle</b> milk packaging into new paper				
	We largely <b>recycle</b> the circuit board of cell phones because they contain a lot of valuable metals.				
incinerate	v. to burn something, especially waste material completely <i>synonym</i> : burn				
	(1) incinerate waste, (2) the power to incinerate nations For safety reasons, we must completely incinerate contaminated protective clothing.				
degrade	<ul> <li>v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others</li> </ul>				
	synonym: demean, disgrace, impair				
	(1) <b>degrade</b> his public image, (2) <b>degrade</b> environmental quality				
	You should not <b>degrade</b> yourself by allowing them to use you.				
streamline	<ul> <li>v. to simplify or make more efficient by eliminating unnecessary parts or steps</li> <li>synonym: simplify, optimize, make more efficient</li> </ul>				
	(1) <b>streamline</b> administrative activities, (2) <b>streamline</b> workflow				
	The government plans to streamline the tax collection				

process to make it more efficient.

## **Session 2: Spelling**

1.	snk out of danger	v.	to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
2.	fonts in the snow	n.	a mark of a foot, shoe, or animal's foot left on a surface
3.	acrid fes	v.	to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion
4.	rubber vulion	n.	a process of treating rubber or other materials with sulfur or similar chemicals to improve their strength, durability, elasticity, and resistance to heat and cold
5.	dee environmental quality	v.	to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
6.	incte waste	v.	to burn something, especially waste material completely
7.	chum supplement	n.	a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel

ANSWERS: 1. sneak, 2. footprint, 3. fume, 4. vulcanization, 5. degrade, 6. incinerate, 7. chromium

8.	pe a smoother road	v.	to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
9.	strne administrative activities	v.	to simplify or make more efficient by eliminating unnecessary parts or steps
10.	fe with anger	v.	to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion
11.	urne foam	n.	a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings
12.	suat the cheese	v.	to heat a substance to a temperature higher than its boiling point
13.	suat the solution	v.	to heat a substance to a temperature higher than its boiling point
14.	pe a new path	v.	to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
15.	lar job	n.	a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks
16.	skilled lar	n.	a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks

ANSWERS: 8. pave, 9. streamline, 10. fume, 11. urethane, 12. superheat, 13. superheat, 14. pave, 15. laborer, 16. laborer

17. the fonts of an earlier civilization	n.	a mark of a foot, shoe, or animal's foot left on a surface
18. et a gamma ray	v.	to give off or send out something such as light, heat, sound, gas, etc.
19. carnic chemicals	adj.	capable of causing cancer or promoting tumor growth; cancer-causing
20. vulion agent	n.	a process of treating rubber or other materials with sulfur or similar chemicals to improve their strength, durability, elasticity, and resistance to heat and cold
21. carnic air pollution	adj.	capable of causing cancer or promoting tumor growth; cancer-causing
22. dise the protesters	v.	to spread out or distribute over a broad region, or to cause something to do so
23. ree the cardboard boxes	ν.	to sort and collect things to process them and produce valuable materials that can be used again
24. toxic bycts	n.	a secondary or incidental product produced in the manufacture or synthesis of something else
25. indus student	adj.	hardworking, diligent, and persistent in effort
26. urne sealant	n.	a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings
27. dise false information	v.	to spread out or distribute over a broad region, or to cause something to do so

ANSWERS: 17. footprint, 18. emit, 19. carcinogenic, 20. vulcanization, 21. carcinogenic, 22. disperse, 23. recycle, 24. byproduct, 25. industrious, 26. urethane, 27. disperse

28.	indus worker	adj.	hardworking, diligent, and persistent in effort
29.	dee his public image	ν.	to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
30.	snk a cigarette	v.	to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
31.	the power to incte nations	v.	to burn something, especially waste material completely
32.	strne workflow	v.	to simplify or make more efficient by eliminating unnecessary parts or steps
33.	byct of technology	n.	a secondary or incidental product produced in the manufacture or synthesis of something else
34.	ree milk packaging into new paper	v.	to sort and collect things to process them and produce valuable materials that can be used again
35.	et air pollution	v.	to give off or send out something such as light, heat, sound, gas, etc.
36.	chum mining	n.	a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel

ANSWERS: 28. industrious, 29. degrade, 30. sneak, 31. incinerate, 32. streamline, 33. byproduct, 34. recycle, 35. emit, 36. chromium

## Session 3: Fill in the Blanks

- 1. The car's bumper was coated with a \_\_\_\_\_ layer for extra protection.
- *n.* a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings
- 2. The metal must be \_\_\_\_\_\_ before being shaped into the final product.
- *v.* to heat a substance to a temperature higher than its boiling point
- 3. The process of \_\_\_\_\_\_ is essential in creating durable rubber products.
- *n.* a process of treating rubber or other materials with sulfur or similar chemicals to improve their strength, durability, elasticity, and resistance to heat and cold
- 4. We largely \_\_\_\_\_\_ the circuit board of cell phones because they contain a lot of valuable metals.
- *v.* to sort and collect things to process them and produce valuable materials that can be used again
- 5. The children tried to \_\_\_\_\_ out and eat the candy.
- *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
- 6. The construction site hired many \_\_\_\_\_\_ to help with the heavy lifting.
- *n.* a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks
- 7. They \_\_\_\_\_ the courtyard with bricks, giving it a more polished appearance.
- *v.* to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use

ANSWERS: 1. urethane, 2. superheated, 3. vulcanization, 4. recycle, 5. sneak, 6. laborers, 7. paved

- 8. Long-term exposure to \_\_\_\_\_\_ materials can result in serious health problems.
- *adj.* capable of causing cancer or promoting tumor growth; cancer-causing
- 9. You should not \_\_\_\_\_\_ yourself by allowing them to use you.
- v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
- 10. \_\_\_\_\_\_ fixtures are popular because of their corrosion resistance.
- *n.* a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel
- 11. He was known to be very \_\_\_\_\_ and would often work late into the night.
- *adj.* hardworking, diligent, and persistent in effort
- 12. We choose transportation that has a smaller carbon \_\_\_\_\_\_.
- *n.* a mark of a foot, shoe, or animal's foot left on a surface
- 13. The angry customer began to \_\_\_\_\_ when their order was delayed.
- v. to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger,
   irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted
   from a substance, usually as a result of heating or combustion
- 14. During the unloading, the container box \_\_\_\_\_ a clicking sound.
- *v.* to give off or send out something such as light, heat, sound, gas, etc.
- 15. For safety reasons, we must completely \_\_\_\_\_ contaminated protective clothing.
- *v.* to burn something, especially waste material completely

ANSWERS: 8. carcinogenic, 9. degrade, 10. Chromium-plated, 11. industrious, 12. footprint, 13. fume, 14. emits, 15. incinerate

- 16. Before authorities \_\_\_\_\_\_ the protesters, they yelled slogans.
- *v.* to spread out or distribute over a broad region, or to cause something to do so
- 17. The \_\_\_\_\_\_ of the energy production process is a large amount of carbon dioxide emissions.
- *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
- 18. The government plans to \_\_\_\_\_\_ the tax collection process to make it more efficient.
- *v.* to simplify or make more efficient by eliminating unnecessary parts or steps

ANSWERS: 16. dispersed, 17. byproduct, 18. streamline