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# Vocabulary Builder Reference from...

Oded Shoseyov: How we're harnessing nature's

hidden superpowers | TED Talk

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## **Advanced Words Only**

#### **IMPORTANT**

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## **Session 1: Word List**

## sequoia

 a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood

synonym: redwood

(1) a giant **sequoia**, (2) **Sequoia** National Park
The **sequoia** tree is known for its massive size and long lifespan.

## crystalline

 adj. resembling crystal in clarity, transparency, or brilliance;
 having a highly ordered and symmetrical molecular structure

synonym: crystallized, clear, transparent

(1) **crystalline** structure, (2) **crystalline** water

The geologist found a beautiful specimen of a **crystalline** mineral.

#### cellulose

 a complex carbohydrate that is the main structural component of plant cell walls and fibers; a substance used to make paper, textiles, and other materials

synonym: fiber, paper, wood pulp

(1) **cellulose** acetate, (2) **cellulose** insulation

The **cellulose** content in fruits and vegetables contributes to their dietary fiber.

#### industrious

adj. hardworking, diligent, and persistent in effortsynonym: diligent, hardworking, assiduous

(1) industrious worker, (2) industrious student

He was known to be very **industrious** and would often work late into the night.

## sludge

 a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful

synonym: muck, ooze, mire

(1) **sludge** treatment, (2) **sludge** removal

The **sludge** at the bottom of the river was a toxic hazard for marine life.

#### flea

 a small, agile, wingless, and parasitic insect that feeds on the blood of mammals and birds

synonym: pulex, siphonaptera, biter

(1) local **flea** market, (2) **flea** infestation

The **flea-borne** disease caused a severe outbreak in the city.

#### resilin

 a rubber-like protein found in insects and some other animals, known for its highly elastic properties, enabling it to act as a shock absorber in certain body parts or structures, such as wings or joints

synonym: resilient protein, elastic protein, rubber protein

(1) **resilin-based** biomaterials, (2) insect **resilin** 

The elasticity of **resilin** allows insects like fleas to jump great distances compared to their size.

## squish

v. to crush or press something so that it becomes flat or distorted

synonym: crush, smash, squeeze

(1) squish the ellipse, (2) squish a tomato

He **squished** the insect between his fingers to get rid of it.

## jumpy

adj. nervous, jittery, or prone to sudden movements or reactions; characterized by irregular or uneven movement or motion

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synonym: anxious, nervous, edgy

(1) **jumpy** cat, (2) **jumpy** behavior

The **jumpy** student was anxious during the exam and made several careless mistakes.

## smartphone

- a mobile phone that functions as a computer and connects to the Internet
- (1) **smartphone** app developer, (2) **smartphone** addict Internet traffic volumes have increased significantly with the advent of **smartphones**.

### saccharide

a simple sugar or carbohydrate; any compound that can be hydrolyzed to yield sugars

synonym: sugar, carbohydrate, sweetener

(1) saccharide molecule, (2) complex saccharide Cellulose is a structural saccharide found in the cell walls of plants.

#### scaffold

a temporary platform or structure used to support workers and materials during construction or maintenance work

synonym: platform, staging, framework

(1) scaffold construction, (2) go to the scaffold The construction workers set up the **scaffold** to reach the top of the building.

## proliferate

to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

synonym: multiply, spread, propagate

(1) **proliferate** cells, (2) **proliferate** weeds The number of COVID cases continued to **proliferate** in many countries worldwide.

#### biomaterial

- a substance, usually synthetic, that is used for medical n. or veterinary purposes and is designed to mimic or replace biological tissues
- (1) biomaterial development, (2) biomaterials industry

The new **biomaterials** used in implants are more durable and less likely to cause an immune response.

## collagen

n. a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues

synonym: gelatin, protein, tissue

(1) **collagen** supplement, (2) **collagen** production Our natural **collagen** production decreases as we age, leading to wrinkles, sagging skin, and joint pain.

## admittedly

 adv. used to acknowledge a fact or statement, often one that weakens or contradicts an argument or opinion; concededly

synonym: notably, honestly, truly

(1) **admittedly** true, (2) **admittedly** controversial The book was **admittedly** difficult to follow but still worth reading.

### dermis

 the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue

synonym: skin layer, corium, cutis

(1) hair follicle **dermis**, (2) skin **dermis** 

The **dermis** layer contains nerve endings, which enable us to feel sensations such as pressure and pain.

#### wrinkle

*n*. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

synonym: crinkle, fold, crumple

(1) a fine **wrinkle** on a fabric, (2) a facial **wrinkle**This suit is made of **wrinkle-proof** material.

## augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) augment the reality, (2) augment immunity

Economic factors and monetary policy **augmented** inflation.

#### cadaver

 a dead body, especially one used for scientific study or medical research

synonym: corpse, body, remains

(1) cadaver lab, (2) cadaver donor

The hospital received a donation of **cadavers** for their research program.

## winery

 a facility where grapes are processed, and wine is made and stored, often includes areas for tasting, tours, and sales

synonym: vineyard, wine cellar

(1) winery tour, (2) boutique winery

She works as a sommelier at a prestigious **winery** in Napa Valley.

## transgenic

adj. relating to or characterized by the transfer of genes from one species to another, typically done in genetic engineering and biotechnology

synonym: genetically modified, altered, engineered

(1) **transgenic** organism, (2) **transgenic** technology The **transgenic** crops were genetically modified to be resistant to pests.

## untouched

adj. not touched or disturbed by anyone or anything; not having been altered, changed, or affected in any waysynonym: untarnished, pristine, intact

(1) **untouched** wilderness, (2) **untouched** landscape
The abandoned house was **untouched** for years, with vines growing all over it.

#### ulcer

n. a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems

synonym: lesion, sore, wound

(1) mouth ulcer, (2) gastric ulcer

The stress of the job caused him to develop an **ulcer** in his stomach.

tendon

 a strong, fibrous cord of tissue that connects muscle to bone

synonym: tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

**Tendon** injuries are common among athletes.

ligament

 a band of tissue that connects bones or holds organs in place to support and stabilize the body

*synonym*: band, cord, tendon

(1) a **ligament** in the ankle, (2) cruciate **ligament**The **ligaments** in the knee provide stability and support.

Zion

a term used in the Bible to refer to the hill in Jerusalem, which is the symbolic center of Jewish worship and identity; in a broader sense, Zion sometimes refers to the Jewish people, the land of Israel, or the idea of a promised homeland for the Jewish nation

synonym: jerusalem, promised land, holy city

(1) going up to **Zion**, (2) the ancient land of **Zion**The Jewish people strongly connect to **Zion** as a symbol of their homeland and identity.

# **Session 2: Spelling**

1. the ancient land of Z\_\_n

- 2. ind us worker
- 3. ju\_\_y cat
- 4. sc\_\_\_\_ld construction
- 5. sq h a tomato
- 6. pro\_\_\_\_te weeds
- 7. ind us student
- 8. adm\_\_\_\_ly true

- n. a term used in the Bible to refer to the hill in Jerusalem, which is the symbolic center of Jewish worship and identity; in a broader sense, Zion sometimes refers to the Jewish people, the land of Israel, or the idea of a promised homeland for the Jewish nation
- adj. hardworking, diligent, and persistent in effort
- adj. nervous, jittery, or prone to sudden movements or reactions; characterized by irregular or uneven movement or motion
- a temporary platform or structure used to support workers and materials during construction or maintenance work
- v. to crush or press something so that it becomes flat or distorted
- to grow or increase rapidly in number;
   to reproduce or spread rapidly,
   especially in an uncontrolled manner
- adj. hardworking, diligent, and persistent in effort
- adv. used to acknowledge a fact or statement, often one that weakens or contradicts an argument or opinion; concededly

ANSWERS: 1. Zion, 2. industrious, 3. jumpy, 4. scaffold, 5. squish, 6. proliferate, 7. industrious, 8. admittedly

9.	admly controversial	adv.	used to acknowledge a fact or statement, often one that weakens or contradicts an argument or opinion; concededly
10.	hair follicle des	n.	the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue
11.	car lab	n.	a dead body, especially one used for scientific study or medical research
12.	cese acetate	n.	a complex carbohydrate that is the main structural component of plant cell walls and fibers; a substance used to make paper, textiles, and other materials
13.	go to the scld	n.	a temporary platform or structure used to support workers and materials during construction or maintenance work
14.	smane addict	<i>n</i> .	a mobile phone that functions as a computer and connects to the Internet
15.	cryne water	adj.	resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
16.	bioal development	n.	a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
17.	bioals industry	n.	a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

ANSWERS: 9. admittedly, 10. dermis, 11. cadaver, 12. cellulose, 13. scaffold, 14. smartphone, 15. crystalline, 16. biomaterial, 17. biomaterial

ANSWERS: 18. tendon, 19. jumpy, 20. untouched, 21. augment, 22. ulcer, 23. collagen, 24. ligament, 25. resilin

ANSWERS: 26. wrinkle, 27. sequoia, 28. saccharide, 29. resilin, 30. winery, 31. saccharide, 32. sequoia, 33. sludge

34.	mouth ulr	n.	a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems
35.	car donor	n.	a dead body, especially one used for scientific study or medical research
36.	smane app developer	n.	a mobile phone that functions as a computer and connects to the Internet
37.	traic organism	adj.	relating to or characterized by the transfer of genes from one species to another, typically done in genetic engineering and biotechnology
38.	a facial wre	n.	a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
39.	fa infestation	n.	a small, agile, wingless, and parasitic insect that feeds on the blood of mammals and birds
40.	wiy tour	n.	a facility where grapes are processed, and wine is made and stored, often includes areas for tasting, tours, and sales
41.	sqh the ellipse	ν.	to crush or press something so that it becomes flat or distorted
42.	cruciate lint	n.	a band of tissue that connects bones or holds organs in place to support and stabilize the body
43.	prote cells	v.	to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

ANSWERS: 34. ulcer, 35. cadaver, 36. smartphone, 37. transgenic, 38. wrinkle, 39. flea, 40. winery, 41. squish, 42. ligament, 43. proliferate

ANSWERS: 44. sludge, 45. crystalline, 46. flea, 47. untouched, 48. Zion, 49. tendon, 50. collagen, 51. transgenic

engineering and biotechnology

52. au\_\_\_t the reality

to increase the size, extent, quantity,
 etc. of something by adding something
 to it

53. skin de\_\_\_s

 the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue

54. ce\_\_\_\_se insulation

 a complex carbohydrate that is the main structural component of plant cell walls and fibers; a substance used to make paper, textiles, and other materials

ANSWERS: 52. augment, 53. dermis, 54. cellulose

# **Session 3: Fill in the Blanks**

1. <i>n</i> .	The at the bottom of the river was a toxic hazard for marine life.  a thick, wet mixture of liquid and solid matter, typically one that is unpleasant or harmful
2.	Internet traffic volumes have increased significantly with the advent of
n.	a mobile phone that functions as a computer and connects to the Internet
3.	The content in fruits and vegetables contributes to their dietary fiber.
n.	a complex carbohydrate that is the main structural component of plant cell walls and fibers; a substance used to make paper, textiles, and other materials
4.	The Jewish people strongly connect to as a symbol of their homeland and identity.
n.	a term used in the Bible to refer to the hill in Jerusalem, which is the symbolic center of Jewish worship and identity; in a broader sense, Zion sometimes refers to the Jewish people, the land of Israel, or the idea of a promised homeland for the Jewish nation
5.	This suit is made of material.
n.	a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
6.	He the insect between his fingers to get rid of it.
v.	to crush or press something so that it becomes flat or distorted
7.	The crops were genetically modified to be resistant to pests.
adj	relating to or characterized by the transfer of genes from one species to another, typically done in genetic engineering and biotechnology
	SWERS: 1. sludge, 2. smartphones, 3. cellulose, 4. Zion, 5. wrinkle-proof, 6. iished, 7. transgenic

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