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Vocabulary Builder Reference from...

Marusa Brada: The science of snowflakes | TED Talk https://www.ted.com/talks/marusa_brada_the_scienc e_of_snowflakes

Advanced Words Only

IMPORTANT

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Session 1: Word List

snowflake	 n. a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement synonym: flake, crystal, ice pellet 						
	(1) delicate snowflake , (2) snowflake pattern						
	The Christmas tree was beautifully decorated with delicate snowflake ornaments.						
symmetrical	 adj. having similarity in size, shape, and relative position of corresponding parts synonym: harmonious, balanced, proportional 						
	(1) symmetrical triangle, (2) symmetrical pattern						
	This figure is symmetrical about the x-axis.						
delve	 v. to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner synonym: dig, excavate, uncover 						
	(1) delve deeper, (2) delve into documents						
	Researchers must delve into the intricacies of the human						
	brain to understand mental illness.						

proton	<i>n</i> . a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
	(1) proton decay, (2) proton conductivity
	The solar wind is composed almost entirely of electrons and
	protons.
covalent	<i>adj.</i> pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond<i>synonym</i>: shared, bonded, molecular
	(1) covalent interaction, (2) covalent compound
	In chemistry, covalent bonding involves the sharing of electrons between atoms.
repel	 v. to force an attack or attacker to withdraw or retreat synonym: turn away, fight off, force back (4) neural head head
	(1) repel bandits, (2) repel bad luck
	This material can repel moisture swiftly.
repulsion	<i>n</i> . a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
	synonym: dislike, disgust, repugnance
	(1) repulsion force, (2) sense of repulsion
	The sight of spiders fills me with repulsion .
hexagon	<i>n.</i> a six-sided polygon with six angles and six sides of equal length
	synonym: hexahedron, six-sided figure, six-gon
	(1) hexagon head bolt, (2) hexagon pattern
	The honeycomb structure of a beehive is made up of
	hexagons.
wintry	 adj. relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior synonym: cold, icy, snowy

(1) wintry weather, (2) wintry scenery

The children built a wintry snowman in the backyard.

jagged adj. having a rough and sharply uneven surface or outline synonym: bumpy, irregular, craggy (1) jagged edges, (2) the jagged outline of the crags

There are several **jagged** limestone peaks throughout the mountains.

fractal

n. a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations

synonym: pattern, design, geometry

(1) fractal pattern, (2) fractal art

The coastline of Norway is one of the most famous examples of **fractal** geometry in nature.

Session 2: Spelling

1.	symal triangle	adj.	having similarity in size, shape, and relative position of corresponding parts
2.	frl art	n.	a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
3.	frl pattern	n.	a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
4.	snke pattern	n.	a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement
5.	the jad outline of the crags	adj.	having a rough and sharply uneven surface or outline
6.	reon force	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
7.	hen head bolt	n.	a six-sided polygon with six angles and six sides of equal length
8.	dee deeper	v.	to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner
9.	delicate snke	n.	a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement

ANSWERS: 1. symmetrical, 2. fractal, 3. fractal, 4. snowflake, 5. jagged, 6. repulsion, 7. hexagon, 8. delve, 9. snowflake

10.	prn decay	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
11.	reI bad luck	v.	to force an attack or attacker to withdraw or retreat
12.	prn conductivity	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
13.	wiy scenery	adj.	relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
14.	hen pattern	n.	a six-sided polygon with six angles and six sides of equal length
15.	dee into documents	ν.	to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner
16.	wiy weather	adj.	relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
17.	reI bandits	v.	to force an attack or attacker to withdraw or retreat
18.	sense of reon	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
19.	symal pattern	adj.	having similarity in size, shape, and relative position of corresponding parts

ANSWERS: 10. proton, 11. repel, 12. proton, 13. wintry, 14. hexagon, 15. delve, 16. wintry, 17. repel, 18. repulsion, 19. symmetrical

20. cont interaction	adj.	pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond
21. jad edges	adj.	having a rough and sharply uneven surface or outline
22. cont compound	adj.	pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond

ANSWERS: 20. covalent, 21. jagged, 22. covalent

Session 3: Fill in the Blanks

- 1. The Christmas tree was beautifully decorated with delicate ______ ornaments.
- *n.* a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement
- 2. There are several _____ limestone peaks throughout the mountains.

adj. having a rough and sharply uneven surface or outline

- 3. The coastline of Norway is one of the most famous examples of ______ geometry in nature.
- *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
- 4. This figure is _____ about the x-axis.
- *adj.* having similarity in size, shape, and relative position of corresponding parts
- 5. In chemistry, _____ bonding involves the sharing of electrons between atoms.
- *adj.* pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond
- 6. The honeycomb structure of a beehive is made up of _____.
- *n.* a six-sided polygon with six angles and six sides of equal length
- 7. The sight of spiders fills me with _____.
- *n.* a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects

ANSWERS: 1. snowflake, 2. jagged, 3. fractal, 4. symmetrical, 5. covalent, 6. hexagons, 7. repulsion

- 8. This material can _____ moisture swiftly.
- *v.* to force an attack or attacker to withdraw or retreat
- 9. The solar wind is composed almost entirely of electrons and _____.
- *n*. a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
- 10. The children built a ______ snowman in the backyard.
- *adj.* relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
- 11. Researchers must _____ into the intricacies of the human brain to understand mental illness.
- v. to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner

ANSWERS: 8. repel, 9. protons, 10. wintry, 11. delve