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Vocabulary Builder Reference from...

Daniel Finkel: Can you solve the dark matter fuel riddle? | TED Talk

https://www.ted.com/talks/daniel_finkel_can_you_solve_the_dark_matter_fuel_riddle

Advanced Words Only

IMPORTANT

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Session 1: Word List

parsec

n. a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)

(1) distance of a **parsec**, (2) astronomical **parsec** distance
The nearest star to our planet is about 1.3 **parsecs** away.

riddle

n. a type of question that describes something in a difficult and confusing way, and that has a surprising answer, often asked as a game

synonym: mystery, puzzle, enigma

(1) **riddle** me a riddle, (2) solve the **riddle**

The **riddle** remains mysterious to us.

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.

refuel

v. to put additional fuel into a plane, ship, car, etc.

(1) **refuel** air-to-air, (2) **refuel** bombers in flight

Our plane stopped in the country to **refuel**.

fume

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

synonym: smoke, vaporize, emit

(1) **fume** with anger, (2) acrid **fumes**

The angry customer began to **fume** when their order was delayed.

Session 2: Spelling

1. environmental det_____nt
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
2. acrid f__es
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
3. astronomical pa___c distance
n. a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)
4. re___l bombers in flight
v. to put additional fuel into a plane, ship, car, etc.
5. re___l air-to-air
v. to put additional fuel into a plane, ship, car, etc.
6. 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
7. ri___e me a riddle
n. a type of question that describes something in a difficult and confusing way, and that has a surprising answer, often asked as a game
8. f__e 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

ANSWERS: 1. determinant, 2. fume, 3. parsec, 4. refuel, 5. refuel, 6. determinant, 7. riddle, 8. fume

9. distance of a pa___c

n. a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)

10. solve the ri___e

n. a type of question that describes something in a difficult and confusing way, and that has a surprising answer, often asked as a game

ANSWERS: 9. parsec, 10. riddle

Session 3: Fill in the Blanks

1. 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

2. 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

3. The _____ remains mysterious to us.
 - n.* a type of question that describes something in a difficult and confusing way, and that has a surprising answer, often asked as a game

4. Our plane stopped in the country to _____.
 - v.* to put additional fuel into a plane, ship, car, etc.

5. The nearest star to our planet is about 1.3 _____ away.
 - n.* a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)

ANSWERS: 1. determinant, 2. fume, 3. riddle, 4. refuel, 5. parsecs