

UNIT 2 VOCABULARY

This report provides a summary of key vocabulary for this unit. For each word, you will find the definition, related words, its word family, and examples of how the word, or forms of the word, are used in a sentence.

adapt

- make fit for, or change to suit a new purpose
- adapt or conform oneself to new or different conditions

Related words: accommodate, adapt, adjust, conform

Word family: adapting, adapts, adaptations, adaptor, adapter, adaptable, adaptation, maladaptive, adaptive, adapted, adaptability, adapt

- Examples:**
- Learning enables you to adapt, or adjust, to your environment.
 - Any life form must adapt to and interact with its physical environment.
 - Flowers adapt in curious ways to make cross-pollination possible.

advance

- a movement forward
- move forward, also in the metaphorical sense
- a change for the better; progress in development
- bring forward for consideration or acceptance
- increase or raise
- contribute to the progress or growth of
- cause to move forward
- obtain advantages, such as points, etc.
- develop in a positive way
- a tentative suggestion designed to elicit the reactions of others
- the act of moving forward (as toward a goal)
- develop further
- an amount paid before it is earned
- increase in price or value
- give a promotion to or assign to a higher position
- pay in advance
- move forward
- rise in rate or price
- being ahead of time or need
- situated ahead or going before

Related words: accelerate, adduce, advance, advanced, advancement, allege, approach, assign, beforehand, betterment, boost, elevate, encourage, exalt, feeler, further, gain, heighten, improve, improvement, overture, procession, progress, progression, promote, raise, rise, supercharge, upgrade, win

Word family: advance, advanced, advances, advancement, advancing, advancements

- Examples:**
- Your questions should be planned carefully in advance.
 - Be sure to make arrangements for this interview well in advance.
 - If a weak offense meets a powerful defense, the offense may seldom advance the ball past midfield.

astronomical

- relating or belonging to the science of astronomy
- inconceivably large

Related words: astronomical, galactic

Word family: astronomically

- Examples:**
- Newton was only able to confirm his theory with astronomical observations.
 - Like all other astronomical bodies, the Earth is controlled by known forces.
 - As Europeans became habituated to nicotine, the demand for tobacco expanded at an astronomical rate.

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astronomy

- the branch of physics that studies celestial bodies and the Universe as a whole

Related words: astronomy

Word family: astronomer, astronomy

- Examples:**
- Astronomy is the basis for telling time.
 - Studying astronomy has had other results besides satisfying man's curiosity.
 - Much of ancient astronomy was learned in Alexandria, Egypt.

discovery

- the act of discovering something
- something that is discovered
- a productive insight
- (law) compulsory pretrial disclosure of documents relevant to a case; enables one side in a litigation to elicit information from the other side concerning the facts in the case

Related words: breakthrough, discovery, find, uncovering

Word family: rediscovery, discoverer, undiscovered, discover, rediscovered, discovered, discovers, discovering, rediscover, discoveries, discovery

- Examples:**
- The discovery that stars move was the turning point.
 - Fleming's discovery of penicillin and his early work with it arose by chance during research in another area.
 - Newton's great contribution to the science of mechanics was the discovery that the same laws of nature are valid throughout our solar system.

evidence

- your basis for belief or disbelief; knowledge on which to base belief
- an indication that makes something evident
- provide evidence for; stand as proof of; show by one's behavior, attitude, or external attributes
- (law) all the means by which any alleged matter of fact whose truth is investigated at judicial trial is established or disproved
- provide evidence for, give evidence

Related words: attest, certify, demonstrate, evidence, grounds, manifest, prove, show, tell, testify

Word family: evidencing, evident, evidence, evidenced, evidences, evidential, evidently

- Examples:**
- By studying the evidence, archaeologists have learned much about early people.
 - A depositor should keep his cancelled checks as evidence that payments have been made.
 - Now that we have examined the various forms of evidence that are used by the speaker, let us turn to the process of assembling evidence and ideas into some coherent form.

hydrogen

- a nonmetallic univalent element that is normally a colorless and odorless highly flammable diatomic gas; the simplest and lightest and most abundant element in the Universe

Related words: hydrogen

Word family: hydrogenated, hydrogen, hydrogenation

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Examples:	<ul style="list-style-type: none"> Hydrogen gas is lighter than air. The sun is constantly losing hydrogen and gaining helium through nuclear fusion. The high flammability of hydrogen requires that it be handled with care.
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intuition

	<ul style="list-style-type: none"> instinctive knowing (without the use of rational processes) an impression that something might be the case
Related words:	hunch, intuition, suspicion
Word family:	intuitions
Examples:	<ul style="list-style-type: none"> Emotions are also inseparably involved in creative activity, inspiration, and intuition. Supervisors will admit that at times they base their decisions on hunch and intuition. About two-thirds of the mass of human brain is in the cerebral cortex, which is devoted to intuition and reason.

logic

	<ul style="list-style-type: none"> the branch of philosophy that analyzes inference reasoned and reasonable judgment the principles that guide reasoning within a given field or situation 	<ul style="list-style-type: none"> the system of operations performed by a computer that underlies the machine's representation of logical operations a system of reasoning
Related words:	logic	
Word family:	illogical, logic, illogic, logical, logically	
Examples:	<ul style="list-style-type: none"> "Air logic" is a relatively new system of machine control. Air logic is now used by many manufacturing industries. The air logic system uses compressed air to regulate machine controls. 	

observation

	<ul style="list-style-type: none"> the act of making and recording a measurement the act of observing; taking a patient look a remark expressing careful consideration 	<ul style="list-style-type: none"> facts learned by observing the act of noticing or paying attention
Related words:	notice, observance, observation, reflection, reflexion, watching	
Word family:	observational, observable, observatory, observance, observation, observer, observant, observed, observes, observers, observe, observations, unobserved, observatories, observing	
Examples:	<ul style="list-style-type: none"> Physics is studied by observation and experiment. We receive information through direct observation, by means of our five senses. A statement made to answer a question about an observation is a hypothesis. 	

parallax

	<ul style="list-style-type: none"> the apparent displacement of an object as seen from two different points that are not on a line with the object
Related words:	parallax
Examples:	<ul style="list-style-type: none"> One piece of evidence is based on a property called parallax. Parallax is an apparent shift in the position of an object when it is viewed from different places. Parallax can be used to determine distance to nearby stars.



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proton

- a stable particle with positive charge equal to the negative charge of an electron

Related words: proton

Word family: protons

- Examples:**
- It seems likely, but how could proton bullets be obtained?
 - The nucleus is a single proton, as you have seen.
 - We have three atomic bullets, then: the neutron, the proton, and the alpha particle.

revolution

- a drastic and far-reaching change in ways of thinking and behaving
- the overthrow of a government by those who are governed
- a single complete turn (axial or orbital)

Related words: gyration, revolution, rotation

Word family: revolutionary, revolution, revolutionize, revolts, revolt, revolutionaries, revolting, revolutions, counterrevolutionary, revolutionized, revolted

- Examples:**
- After the Industrial Revolution began, more people began to move into towns and cities.
 - The French Revolution brought sweeping changes to France's political, social, and economic systems.
 - The achievements of the Scientific Revolution and the technological advances that preceded it were very important.

scholar

- a learned person (especially in the humanities); someone who by long study has gained mastery in one or more disciplines
- someone (especially a child) who learns (as from a teacher) or takes up knowledge or beliefs
- a student who holds a scholarship

Related words: bookman, learner, scholar, student

Word family: scholarships, scholastic, scholar, scholars, scholarly, scholarship

- Examples:**
- Manual labor was considered beneath the dignity of the scholar.
 - The scholar suggested a plan that Caesar and later Augustus adopted for the Roman calendar.
 - In the year 1138, the royal palace at Palermo, Sicily was the scene of a long-awaited meeting between a Christian king and a Muslim scholar.

scientific

- of or relating to the practice of science
- conforming with the principles or methods used in science

Related words: scientific

Word family: scientific, prescience, science, scientifically, omniscience, sciences, pseudoscience, scientist, scientists, pseudoscientific

- Examples:**
- A scientific hypothesis is an educated guess.
 - A scientific theory must be able to be tested.
 - Technology is the use of scientific knowledge in a practical way.



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system

- instrumentality that combines interrelated interacting artifacts designed to work as a coherent entity
- a group of independent but interrelated elements comprising a unified whole
- (physical chemistry) a sample of matter in which substances in different phases are in equilibrium
- a complex of methods or rules governing behavior
- an organized structure for arranging or classifying
- a group of physiologically or anatomically related organs or parts
- a procedure or process for obtaining an objective
- the living body considered as made up of interdependent components forming a unified whole
- an ordered manner; orderliness by virtue of being methodical and well organized

Related words: apparatus, arrangement, complex, composition, logistics, machinery, organisation, organization, scheme, structure, synthesis, system

Word family: subsystem, systematize, systematically, systemize, system, systemic, systems, systematic, ecosystem, ecosystems, systemically

- Examples:**
- There is more than one system of measurement.
 - We have an economic system within our nation.
 - A computer system cannot do anything without an operating system.

Universe

- everything that exists anywhere
- (statistics) the entire aggregation of items from which samples can be drawn
- everything stated or assumed in a given discussion

Related words: cosmos, creation, existence, population, universe, world

Word family: universalist, universality, universes, universe, universal, universally

- Examples:**
- Our solar system is part of a vast Universe.
 - All objects in the Universe are made of matter.
 - Some scientists have questioned whether the Universe had a beginning.



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