Surges in volcanic activity on the Moon about two billion years ago https://doi.org/10.1038/s41467-023-39418-0

1. Eruption – [ɪˈrʌpʃn] – an occasion when a volcano suddenly throws out burning rocks, smoke, etc.

Ex(dict) - a major volcanic eruption

Ex(my) - an eruption of violent protest

Ex(article) - young volcanic eruptions are poorly constrained by remote observations and limited samples.

1. Investigate – [ɪnˈvestɪɡeɪt] – to carefully examine the facts of a situation, an event, a crime, etc. to find out the truth about it or how it happened.

Ex(dict) - The FBI has been called in to investigate.

Ex(article) - we investigate the mineralogy and geochemistry.

Ex(my) - the report calls for a commission to investigate the matter further.

1. Assimilation – [əˌsɪməˈleɪʃn] – the process of fully understanding an idea or some information so that you are able to use it yourself.

Ex(article) - limited magma recharge or shallow-level assimilation.

Ex(dict) - his assimilation into the community

Ex(my) - the rapid assimilation of new ideas

1. Trigger – [ˈtrɪɡə(r)] – to make something happen suddenly.

Ex(article) - more factors such as crustal recycling can trigger volcanic eruptions.

Ex(dict) - Nuts can trigger off a violent allergic reaction

Ex(my) - The incident triggered protests across the country.

1. Duration – [djuˈreɪʃn] – the length of time that something lasts or continues.

Ex(article) - such a duration of basaltic volcanism on the Moon is broadly consistent with models of thermal evolution

Ex(dict) - The school was used as a hospital for the duration of the war.

Ex(my) - a contract of three years’ duration

1. Meteorite – [ˈmiːtiəraɪt] – a piece of rock from outer space that hits the earth’s surface.

Ex(article) - later than previously measured in returned samples and meteorites, where heat-producing elemental and water concentrations were lower than expected.

Ex(my) - the first step in identifying a possible meteorite is the magnet test

1. Flux – [flʌks] – continuous movement and change.

Ex(article) - Knowledge of the eruptive fluxes in terms of volume/mass could place constraints on this late-stage lunar volcanic activity.

Ex(dict) - a flux of neutrons

Ex(my) - Our society is in a state of flux.

1. Bombardment – [bɒmˈbɑːdmənt] – an attack in which smt. are fired at a place or smt. are dropped on it continuously.

Ex(article) - difficulties in the recognition of flow fronts caused by impact bombardment and other continuous erosional processes.

Ex(dict) - The city came under heavy bombardment.

Ex(my) - these days of media bombardment

1. Predominant – [prɪˈdɒmɪnənt] – having more power or influence than others.

Ex(article) - plagioclase and clinopyroxene are the predominant phases in the rock clasts.

Ex(dict) - a predominant culture

Ex(my) - a way of thinking that is predominant in modern social life

A quantum engine in the BEC–BCS crossover https://doi.org/10.1038/s41586-023-06469-8

1. Regimes - /reɪˈʒiːm/ - a method or system of organizing or managing something.

Ex(article) - Heat engines convert thermal energy into mechanical work both in the classical and

quantum regimes.

Ex(dict) - Our tax regime is one of the most favourable in Europe

Ex(my) – There is a densy regime in this university.

1. Exploited - /ɪkˈsplɔɪt/ - to use something well in order to gain as much from it as possible.

Ex (article) - So far have not been exploited in cyclic engines.

Ex(dict) - He exploited his father's name to get himself a job.

Ex(my) - She realized that her youth and inexperience were being exploited

1. Resonance - /ˈrezənəns/ - the sound or other vibration produced in an object by sound or vibrations of a similar frequency from another object.

Ex(article) - We employ a harmonically trapped superfluid gas of Li atoms close to a magnetic Feshbach resonance

Ex(dict) - Her voice had a strange and thrilling resonance

Ex(my) – In this experiment setup we reached a resonance

1. Piston - /ˈpɪstən/ -a part of an engine that consists of a short [cylinder](https://www.oxfordlearnersdictionaries.com/definition/english/cylinder) that fits inside a tube and moves up and down or backwards and forwards to make other parts of the engine move.

Ex(article) - Work corresponds to energy change at constant entropy, as in the case of the variation of the position of a piston

Ex(my) – He changed piston in his car engine because of trouble with pressure in fuel system

1. Stroke - /strəʊk/ - an act of hitting.

Ex (article) - where heating and cooling strokes redistribute the quantum state populations

Ex (dict) - His punishment was six strokes of the cane.

Ex(my) – this stroke knocked him down

1. Exclusion - /ɪkˈskluːʒn/ -  the act of deciding that something is not possible.

Ex(article) - The exclusion principle plays an essential role for the stability of matter.

Ex(dict) - He was disappointed with his exclusion from the England squad.

Ex(my) - Exclusion of air creates a vacuum in the bottle.

1. Confined - /kənˈfaɪnd/ -  small and surrounded by walls or sides

Ex(article) - atoms confined in a combined opto-magnetic trap

Ex(dict) - It is cruel to keep animals in confined spaces

Ex(my) - These chemicals should not be used in confined areas.

1. Emphasize - /ˈemfəsaɪz/ - to give special importance to something.

Ex(article) - We emphasize that all strokes can, in principle, be described by Hamiltonian dynamics

Ex(dict) - His speech emphasized the importance of attracting industry to the town.

Ex(my) - She emphasized the point in an interview at the weekend

1. Counterpart - /ˈkaʊntəpɑːt/ - a person or thing that has the same position or function as somebody/something else in a different place or situation

Ex(article) - the fermionic counterpart populates all the energy levels up to the Fermi energy

Ex(dict) - The Foreign Minister held talks with his Chinese counterpart

Ex(my) – My counterpart get the solution of task which nobody was able to solve.

First detection of ozone in the mid-infrared at Mars: implications for methane detection https://www.researchgate.net/deref/https%3A%2F%2Fdoi.org%2F10.1051%2F0004-6361%2F202038125?\_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIiwicG9zaXRpb24iOiJwYWdlQ29udGVudCJ9fQ

1. Transition - /trænˈzɪʃn/ - the process or a period of changing from one state or condition to another

Ex (dict) - the transition from school to full-time work

Ex(article) - during this fast transition phase between summer and winter ozone distribution

Ex(my) – this transition take one hour.

1. Abundance - /əˈbʌndəns/ -a large quantity that is more than enough

Ex (dict) - The brochure promised beautiful walks with an abundance of wildlife.

Ex(article) - The stability of the CO2 atmosphere onMars depends on the abundances of odd hydroge

Ex(my) – This winter the abundance of snow.

1. Occultation - /ɒkʌlˈteɪʃn/ - an event that occurs when one object is hidden from the observer by another object

Ex(dict) - This occultation, that's the sign of some apocalyptic thing

Ex(article) - ACS MIR is a novel cross-dispersion spectrometer making solar occultation observations

Ex(my) – We was able to see Moon occultation a few month ago.

1. Wavenumber - /weɪv ˈnʌmbə/ - Wavenumber is a term that is used in spectroscopy to describe a frequency

Ex(article) - An initial guess of wavenumber positions for the solar reference spectrum is compared to the solar spectrum measured

Ex (my) – This wave has a wavenumber a 1.

1. Absorption - /əbˈzɔːpʃn/ - the process of a liquid, gas or other substance being taken in

Ex (dict) - Vitamin D is necessary to aid the absorption of calcium from food.

Ex(article) - Volume absorption coefficients are computed using the HITRAN 2016 line list

Ex(my) – The process of absorption the light was studied in this article

1. Conjunction - /kənˈdʒʌŋkʃn/ - a word that joins words, phrases or sentences, for example ‘and’, ‘but’, ‘or’ or ‘because’

Ex (dict) - The theory is that there was a rare conjunction of certain bright planets that created the image of the so-called ‘Star of Bethlehem’.

Ex(article) – This dramatic rise in ozone occurs in conjunction with the buildup of the winter polar vortex and the quick decline in water vapour

Ex(my) – Conjunction of this black holes was predicted the last century.

1. Distribution - /ˌdɪstrɪˈbjuːʃn/ - the way that something is spread or exists over a particular area or among a particular group of people

Ex(dict) - They studied the geographical distribution of the disease.

Ex(my) - a more equitable distribution of wealth

Ex(article) - during this fast transition phase between summer and winter ozone distribution the O 3 volume mixing ratio observed is 100–200 ppbv near 20 km.