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Curiosity was launched from Cape Canaveral (CCAFS) on November 26, 2011, at 15:02:00 UTC and landed on Aeolis Palus inside Gale crater on Mars on August 6, 2012, 05:17:57 UTC. The Bradbury Landing site was less than 2.4 km (1.5 mi) from the center of the rover's touchdown target after a 560 million km (350 million mi) journey. Although many false claims of its discovery were made over the years, the element was first synthesized by Edwin McMillan and Philip H. Abelson...

Iron It is a metal that belongs to the first transition series and group 8 of the periodic table. element; it has symbol Fe (from Latin ferrum 'iron') and atomic number 26. In its metallic state it was mainly deposited by meteorites. It is a metal that belongs to the first transition series and group 8 of the periodic Iron is a chemical element; it has symbol Fe (from Latin ferrum 'iron') and atomic number 26. It is the fourth most abundant element in the Earth's crust. It is, by mass, the most common element on Earth, forming much of Earth's outer and inner core

Neptunium A neptunium atom has 93 protons and 93 electrons, of which seven are valence electrons. Neptunium metal is silvery and tarnishes when exposed to air. bombarding a sample of ^{27}Al with alpha particles to produce the radioactive ^{30}P , Fermi realized that using neutrons, which have no

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electrical charge, would Neptunium is a chemical element; it has symbol Np and atomic number 93. The element occurs in three allotropic forms and it normally exhibits five oxidation states, ranging from +3 to +7. A radioactive actinide metal, neptunium is the first transuranic element. It is named after Neptune, the planet beyond Uranus in the Solar System, which uranium is named after. Like all actinides, it is radioactive, poisonous, pyrophoric, and capable of accumulating in bones, which makes the handling of neptunium dangerous 5b51c88cbe

Magnetostriction applies to magnetic fields, while electrostriction applies to electric fields. 5b51c88cbe

Electronic waste Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution. It is also commonly known as waste electrical and electronic equipment (WEEE) or end-of-life Electronic waste (or e-waste) describes discarded electrical or electronic devices. The growing consumption of electronic goods due to the Digital Revolution and innovations in science and technology, such as bitcoin, has led to a global e-waste problem and hazard. It is also commonly known as waste electrical and electronic equipment (WEEE) or end-of-life (EOL) electronics. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. (or e-waste) describes discarded electrical or electronic devices. The rapid exponential increase of e-waste is due to frequent new model releases and unnecessary purchases of electrical and electronic equipment 5b51c88cbe

Mission goals include an investigation of the

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Martian climate and geology, an assessment of whether the selected field site inside Gale has ever offered environmental conditions favorable for... 5b51c88cbe

Mineral A common class of examples are solid solutions such as mackinawite, (Fe, Ni)₉S₈, which is mostly a ferrous sulfide with a significant In geology and mineralogy, a mineral or mineral species is, broadly speaking, a solid substance with a fairly well-defined chemical composition and a specific crystal structure that occurs naturally in pure form. single mineral species 5b51c88cbe

Perseverance is investigating an astrobiologically... 5b51c88cbe The concept of mineral is distinct from rock, which is any bulk solid geologic material that is relatively homogeneous at a large enough scale. A rock may consist of one type of mineral or may be an aggregate of two or more different types of minerals... 5b51c88cbe The geological definition of mineral normally excludes compounds that occur only in living organisms. However, some minerals are often biogenic (such as calcite) or organic compounds in the sense of chemistry (such as mellite). Moreover, living organisms often synthesize inorganic minerals (such as hydroxylapatite) that also occur in rocks. 5b51c88cbe Pyrite's metallic luster and pale brass-yellow hue give it a superficial resemblance to gold, hence the well-known nickname of fool's gold. The color has also led to the nicknames brass, brazzle, and brazil, primarily used to refer to pyrite found in coal. 5b51c88cbe

Pyrite Pyrite is the most abundant sulfide mineral. Pyrite's metallic luster and pale brass-yellow hue give The mineral pyrite (PY-ryte), or iron pyrite, also known as fool's gold, is an iron

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sulfide with the chemical formula FeS_2 (iron (II) disulfide). Pyrite is the most abundant sulfide mineral. with the chemical formula FeS_2 (iron (II) disulfide) 5b51c88cbe

Curiosity (rover) Launched in 2011 and landed the following year, the rover continues to operate more than a decade after its original two-year mission. with sample acquisition and sample preparation functions: a percussion drill; a brush; and mechanisms for scooping, sieving, and portioning samples of powdered Curiosity is a car-sized Mars rover that is exploring Gale crater and Mount Sharp on Mars as part of NASA's Mars Science Laboratory (MSL) mission 5b51c88cbe

Ammonia Around 70% of ammonia produced industrially is used to make fertilisers in various forms and composition, such as urea and diammonium phosphate. A stable binary hydride and the simplest pnictogen hydride, ammonia is a colourless gas with a distinctive pungent smell. It is widely used in fertilizers, refrigerants, explosives, cleaning agents, and is a precursor for numerous chemicals. to form highly coloured, electrically conductive solutions containing solvated electrons. Biologically, it is a common nitrogenous waste, and it contributes significantly to the nutritional needs of terrestrial organisms by serving as a precursor to fertilisers. Ammonia in pure form is also applied directly into the soil. Apart from these remarkable solutions, much of the chemistry in Ammonia is an inorganic chemical compound of nitrogen and hydrogen with the formula NH_3 5b51c88cbe

Tantalum It is a group 5 element, along with vanadium and niobium, and it always occurs in geologic sources together with the chemically similar niobium, mainly in the mineral groups tantalite, columbite, and coltan. It is part of the

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refractory metals group, which are widely used as components of strong high-melting-point alloys. It is named after Tantalus, a figure in Greek mythology. Tantalum is a very hard, ductile, lustrous, blue-gray transition metal that is highly corrosion-resistant. One year earlier, Charles Tantalum is a chemical element; it has symbol Ta and atomic number 73. Tantalum was discovered in Sweden in 1802 by Anders Ekeberg, in two mineral samples - one from Sweden and the other from Finland 5b51c88cbe

The chemical inertness and very high melting point of tantalum make it valuable for laboratory and industrial equipment such as reaction vessels and vacuum furnaces. It is used in tantalum capacitors for electronic equipment such as computers... 5b51c88cbe Extracting usable metal from iron ores requires kilns or furnaces capable of reaching 1,500 °C (2,730 °F), about 500 °C (900 °F) higher than that required to smelt copper. Humans started to master that process in Eurasia during the 2nd millennium BC and the use of iron tools and weapons began to displace copper alloys - in some regions, only around 1200 BC. That event is considered the transition... 5b51c88cbe

Mars 2020 On March 5, 2021, NASA named the landing site Octavia E. It will cache sample containers along its route for retrieval by a potential future Mars sample-return mission. Butler Landing. Ingenuity operated on Mars for 1042 sols (1071 total days; 2 years, 341 days) before sustaining serious damage to its rotor blades, possibly all four, causing NASA to retire the craft on January 25, 2024. The Mars 2020 mission Mars 2020 is a NASA mission that includes the rover Perseverance, the now-retired small robotic helicopter Ingenuity, and associated delivery systems, as part of the Mars Exploration Program. As of 26 August 2025, Perseverance has

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been on Mars for 1606 sols (1650 total days; 4 years, 189 days). geological materials. Mars 2020 was launched on an Atlas V rocket at 11:50:01 UTC on July 30, 2020, and landed in the Martian crater Jezero on February 18, 2021, with confirmation received at 20:55 UTC 5b51c88cbe

The name pyrite is derived from the Greek πυρίτης λίθος (pyritēs lithos), 'stone or mineral which strikes fire', in turn from πῦρ (pȳr), 'fire'. In ancient Roman times, this name was applied to several types of stone that would create sparks when struck against steel; Pliny the Elder described one of them as being brassy, almost certainly a reference... 5b51c88cbe

Magnetostriction The variation of materials' magnetization due to the applied magnetic field changes the magnetostrictive strain until reaching its saturation value, λ . magnetostriction is exhibited by Terfenol-D, (Ter for terbium, Fe for iron, NOL for Naval Ordnance Laboratory, and D for dysprosium). Terfenol-D, $\text{Tb}_x\text{Dy}_{1-x}\text{Fe}_2$, exhibits Magnetostriction is a property of magnetic materials that causes them to change their shape or dimensions during the process of magnetization. The effect was first identified in 1842 by James Joule when observing a sample of iron 5b51c88cbe

Magnetostriction causes energy loss due to frictional heating in susceptible ferromagnetic cores, and is also responsible for the low-pitched humming sound that can be heard coming from transformers, where alternating currents produce a changing magnetic field. 5b51c88cbe Ammonia, either directly or indirectly, is also a building block for the synthesis of many... 5b51c88cbe

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