

CHAPTER 13 SECTION 2 VOLCANIC ERUPTION

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How could you tell the difference between a mafic rock and a felsic rock by looking at them? Dark-colored mafic igneous rocks contrast with the less dense and lighter in color felsic igneous rocks. Compared to felsic, mafic rocks are much higher in their magnesium and iron content because the magma that typically forms them originates from Earth's upper mantle.

Which of these describes a mafic lava rather than a felsic lava? So, mafic lavas are hot, low in silica and volatiles, and have relatively low viscosity. They flow easily outward from the vent (where it comes out of the ground), and may travel great distances before completely solidifying. Felsic lavas are not as hot, high in silica and volatiles, and have a high viscosity.

What is the most likely reason that felsic magma usually causes explosive eruptions? A large explosive volcanic eruption is 10,000 times as powerful. Felsic magmas erupt explosively because of hot, gas-rich magma churning within its chamber. The pressure becomes so great that the magma eventually breaks the seal and explodes, just like when a cork is released from a bottle of champagne.

Are felsic or mafic volcanoes more explosive? The rising magma might put pressure on the sides of the volcano. Why does felsic lava produce explosive eruptions more often than mafic lava does? more dissolved gases than mafic lava does. Because felsic lava is viscous, the gases cannot easily escape.

How do you tell if a rock is mafic or felsic by looking at it? Chemically, mafic rocks are enriched in iron, magnesium and calcium and typically dark in color. In contrast the felsic rocks are typically light in color and enriched in aluminium and

silicon along with potassium and sodium. The mafic rocks also typically have a higher density than felsic rocks.

How do you tell if a volcano is mafic or felsic? Mafic magmas are low in silica and contain more dark, magnesium and iron rich mafic minerals, such as olivine and pyroxene. Felsic magmas are higher in silica and contain lighter colored minerals such as quartz and orthoclase feldspar.

What is the difference between felsic mafic and basaltic lavas? Mafic lava produces basalt and is low in silica content and high in dark and iron-rich mafic minerals like pyroxene. On the other hand, felsic magma is higher in silica and produces rhyolite rock. Felsic magmas contain light-colored minerals like orthoclase. Felsic rocks are lighter in color as compared to mafic rocks.

How does felsic magma compare to mafic magma? Mafic vs Felsic The terms mafic and felsic are used to describe these types of rocks. Mafic lava is runnier or more viscous than felsic lava when used to characterize its characteristics. The amount of silica in the lava is the explanation for this. Mafic lavas have less silica than felsic lavas.

Which of the following describes how felsic and mafic magma differ? Answer and Explanation: Mafic magmas are high in iron and magnesium. Felsic magmas are rich in aluminum and silica.

How is pahoehoe lava different from pillow lava? Pillow lavas are essentially the underwater equivalent of pahoehoe. They form from low effusion-rate eruptions of fluid basalt lava. They have a rounder form than pahoehoe toes, mainly because of the ability of water to help buoy them up (gravity doesn't flatten them out so much).

Which types of volcanoes does felsic type of magma give rise to? Because of its relatively high viscosity, felsic magma is resistant to flow and tends to plug volcanic vents, causing a buildup of pressure that may release violently. This resistance to flow also produces steep sided, symmetric volcanic cones called composite volcanoes.

What is the silica content of felsic magma? In a widely accepted silica-content classification scheme, rocks with more than 65 percent silica are called felsic; those

with between 55 and 65 percent silica are intermediate; those with between 45 and 55 percent silica are mafic; and those with less than 45 percent are ultramafic.

What do we call a volcano from low viscosity lava? A shield volcano is a type of volcano named for its low profile, resembling a shield lying on the ground. It is formed by the eruption of highly fluid (low viscosity) lava, which travels farther and forms thinner flows than the more viscous lava erupted from a stratovolcano.

What are the characteristics of felsic lava? Felsic magma or lava is higher in viscosity than mafic magma/lava, and have low temperatures to keep the felsic minerals molten.

Why do mafic lavas erupt effusively? Mafic magma creates gentler effusive eruptions. There is little or no gas. The lava is thin and fluid so that it flows over the ground like a river. Mafic magma pushes toward the surface through fissures.

What is the difference between a mafic and a felsic rock? When discussing rocks or lava, mafic means the lava or rock contains less silica, while felsic means the lava or rock contains the most silica. 6. Mafic rocks are darker than felsic rocks in color.

How would a rock with a mafic composition look different from a rock with a felsic composition? Notice that the felsic rocks can have a small amount of dark-colored ferromagnesian minerals, but is predominately composed of light-colored minerals, whereas the mafic rock has a higher percentage of dark-colored ferromagnesian minerals, which results in a darker-colored rock.

What does a felsic rock look like? Felsic rocks are usually light in color and have specific gravities less than 3. The most common felsic rock is granite. Common felsic minerals include quartz, muscovite, orthoclase, and the sodium-rich plagioclase feldspars (albite-rich).

What is the difference between mafic and felsic lava quizlet? Mafic: the magma that is rich in magnesium and iron which is characterized by dark color, Felsic: the magma that is rich in feldspar and silica which is characterized by light color.

The Rainforest Secret to Building the Next Silicon Valley: Q&A with Victor Hwang

In his book "The Rainforest Secret to Building the Next Silicon Valley," Victor Hwang uncovers the hidden factors behind the success of technology hubs like Silicon Valley and shares insights on how to create similar ecosystems elsewhere. Here's a brief Q&A with the author:

Q: What is the "Rainforest Secret" and how does it apply to building tech hubs?

A: The Rainforest Secret refers to the idea that innovation thrives in diverse, complex, and interconnected ecosystems like tropical rainforests. By encouraging collaboration, promoting risk-taking, and fostering a culture of diversity and inclusivity, regions can create fertile ground for technological breakthroughs.

Q: How important is talent in the development of tech hubs?

A: Talent is essential. Tech hubs attract and retain highly skilled individuals by offering opportunities for growth, collaboration, and social connections. Cultivating a skilled workforce requires a focus on education, training, and lifelong learning.

Q: What role does government play in building tech hubs?

A: Governments can play a supporting role by providing funding, infrastructure, and policies that encourage innovation. However, it's important to avoid over-regulation or excessive intervention, as this can hinder entrepreneurial spirit.

Q: How can established tech hubs continue to grow and innovate?

A: Established hubs must constantly adapt and evolve. This involves embracing new technologies, promoting diversity, and fostering collaboration between different industries and stakeholders. Staying ahead of the curve is crucial for maintaining competitive advantage.

Q: What are some key takeaways from your research for aspiring tech hubs?

A: To build vibrant tech ecosystems, focus on fostering diversity, creating opportunities for collaboration, and promoting a culture of risk-taking. Invest in education and talent development, and encourage government and industry partnerships. By emulating the principles of the rainforest, regions can unlock their potential for technological innovation and economic growth.

The Singing Butler: Exploring Jack Vettriano's Enigmatic Paintings

Known for his captivating paintings that evoke a sense of mystery and intrigue, Jack Vettriano has created a collection of iconic works that have gained widespread recognition. Among these, "The Singing Butler" stands out as one of his most famous and sought-after prints.

What is "The Singing Butler"?

"The Singing Butler" is a painting by Jack Vettriano that depicts a butler in a tuxedo standing in front of a vanity table. He is wearing a mask over his eyes and holds a microphone in one hand, while the other hand rests on a woman's purse. The woman, seen only from behind, is sitting at the vanity table, her head tilted back in laughter.

What is the Significance of the Painting?

"The Singing Butler" has become one of Vettriano's most recognizable works due to its enigmatic atmosphere. The masked butler and the laughing woman create a sense of mystery and intrigue, leaving viewers to speculate about the nature of their relationship and the events that led to this moment.

What are the Key Elements of the Painting?

The painting is characterized by Vettriano's signature style, which blends elements of surrealism and realism. The use of vibrant colors and detailed brushstrokes creates a rich and evocative composition. The masked butler's presence adds a touch of the uncanny to the scene, while the woman's laughter suggests a sense of joy and liberation.

What is the Meaning of "The Singing Butler"?

Vettriano has never explicitly revealed the meaning behind "The Singing Butler," leaving it open to interpretation. Some viewers see it as a commentary on social conventions and the hidden desires that lie beneath the surface. Others believe it is a celebration of the power of music and the joy of letting go.

Where Can I Find "The Singing Butler" Prints?

Original paintings by Jack Vettriano are highly sought-after and can command significant prices. However, prints of his works, including "The Singing Butler," are more accessible and widely available. You can find "The Singing Butler" prints at art galleries, online retailers, and specialized art dealers who handle Vettriano's work.

How does the digital therapy machine work? Electrical - TENS machines deliver small electrical pulses to the body via electrodes placed on the skin. TENS machines are thought to affect the way pain signals are sent to the brain. Nerve - pain signals reach the brain via nerves and the spinal cord.

How to charge a digital therapy machine? A built-in rechargeable battery can be directly charged with a USB cable for powerful continuous enjoyment, you can also use 3* AAA batteries for power supply.

What are the side effects of EMS massager? Muscle soreness or fatigue following EMS, particularly if the intensity or duration of the treatment is too high. Tissue damage or injury, including muscle damage or nerve damage, if the device is not used properly or if the intensity is too high. Pain, discomfort, or cramping in the muscles during or after treatment.

Where should you not use a TENS unit?

Is a digital therapy machine safe? TENS is generally seen as safe. But it has risks just like any treatment. If the electrical current is too high or the electrodes are put on the wrong part of the body, this can burn or irritate the skin. Areas to avoid include the brain, heart, eyes, genitals, and throat.

How do you use a therapy machine?

How do electro therapy machines work? The electrical current stimulates nerve cells that block the transmission of pain signals. This changes the way you perceive pain. The electrical current raises the level of endorphins (your body's natural pain-killing chemicals), which then trigger your body's pain-relieving power.

Who should not use EMS? Contraindications and precautions to the use of EMS
Electrical stimulation should not be used where active movement would not be appropriate e.g. a muscle contraction that will evoke movement around an unstable

fracture.

Is it OK to use EMS everyday? Is it good to use EMS every day? We do not recommend that EMS training is done every day. That's because your muscles need time to recover fully between each session, which is the case with any kind of strength training.

Who should not use an electric massager? People with certain medical conditions, such as heart disease, high blood pressure, or blood clots, should talk to their doctor before using an electric massager. People with injuries or inflammation should also talk to their doctor before using an electric massager.

Is a TENS machine good for arthritis? How well it works: TENS helps acute (short-term) and chronic (long-term) pain. TENS has been shown to relieve osteoarthritis (OA) pain and reduce the need for pain medications. A 2015 Cochrane Review concluded, “[there is] tentative evidence that TENS reduces pain intensity over and above that seen with placebo.

What is the difference between TENS and ems? TENS and EMS units use electrical currents. TENS devices may treat pain, while EMS devices may stimulate and strengthen your muscles. It's currently unclear just how effective these devices are and more, larger-scale research is needed to confirm how well they work. They are, however, safe for most people to use.

Can a TENS unit be used for nerve damage? TENS may ease arthritis pain. The results are mixed on how effective it is for rheumatoid arthritis. Diabetes nerve damage (diabetic neuropathy). Studies show that TENS can help relieve pain from diabetic nerve damage, most commonly in the hands and feet.

How does digital therapy work? Digital therapeutics for mental health are health software that can be accessed on a phone, a tablet or a computer. They deliver evidence-based and validated putics are a subset of the broader category of digital health interventions which includes numerous mental health-related apps.

Does electromagnetic stimulation really work? Although the biology of why TMS works isn't completely understood, the stimulation appears to affect how the brain is working. It seems to ease depression symptoms and improve mood. There are

different ways to perform TMS . Methods may change as experts learn more about the most effective ways to perform treatments.

Is it safe to use digital therapy machine? You should check with your physiotherapist that TENS is a safe option for your pain if you have epilepsy, deep vein thrombosis (DVT), heart problems, cancer or skin that is numb, irritated or fragile. TENS can be used if you have these conditions, but you must seek advice from your physiotherapist or doctor first.

How does an estim machine work? E-stim therapy for muscle recovery sends signals to targeted muscles to make them contract. (Flexing your biceps is a form of muscle contraction.) By causing repeated muscle contractions, blood flow improves, helping repair injured muscles.

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