
The Frequency Guide

Your Complete Guide to Binaural Beats, Brainwave Frequencies, and
Sound-Based Wellness

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Contents

The Frequency Guide	3
Your Complete Introduction to Sound-Based Wellness	3
Chapter 1: Why Your Brain Responds to Sound	3
Chapter 2: The Frequency Spectrum, from Delta to Gamma	5
Chapter 3: Solfeggio Frequencies, Ancient Tones and Modern Science	9
Chapter 4: Binaural Beats, How Two Tones Change Your Brain	11
Chapter 5: Your Personal Frequency Recommendation	13
Chapter 6: The 7-Day Frequency Challenge	17
Chapter 7: Advanced Techniques, Layering, Ambient Sounds, and Sequencing	20
Chapter 8: Next Steps, Start Your Sound Journey	23

The Frequency Guide

Your Complete Introduction to Sound-Based Wellness

A free resource by Sine

The real-time frequency engine for meditation, focus, and deep rest

Chapter 1: Why Your Brain Responds to Sound

You Already Know This Feeling

Think about the last time a song gave you chills. Or the way ocean waves made your shoulders drop. Or how a thunderstorm rolling through made you want to curl up and sleep.

None of that is random. Your brain is wired to respond to sound at a level far deeper than conscious thought. Before you decide whether you like a sound, your nervous system has already reacted to it, adjusting your heart rate, shifting your breathing, altering your brainwave patterns.

This guide is about understanding that response and learning how to use it intentionally.

How Your Brain Processes Sound

Sound reaches your ears as pressure waves vibrating at specific frequencies, measured in Hertz (Hz). One Hz equals one vibration per second. The human ear can detect frequencies roughly between 20 Hz and 20,000 Hz, but the effects of sound on your brain extend well beyond what you consciously hear.

When sound enters your ear, it travels through the auditory nerve to the brainstem, one of the oldest structures in your brain, evolutionarily speaking. From there, signals fan out to the thalamus, the auditory cortex, the limbic system (which governs emotion), and the prefrontal cortex (which handles decision-making and attention). This is why sound can simultaneously make you feel something, think something, and physically react, all within milliseconds.

What makes this particularly interesting for wellness is a phenomenon neuroscientists call the Frequency Following Response.

The Frequency Following Response (FFR)

In 1973, Gerald Oster published a landmark paper in *Scientific American* describing how the brain tends to synchronize its own electrical activity with external rhythmic stimuli. This process, known as neural entrainment or the Frequency Following Response, means that when you expose your brain to a consistent, rhythmic sound at a specific frequency, your brainwaves gradually begin to match that frequency.

This is not pseudoscience. It is measurable on an EEG. Dozens of peer-reviewed studies have confirmed that auditory stimulation at specific frequencies can shift brainwave patterns in predictable ways. The practical implication is profound: by choosing the right frequency, you can guide your brain toward states of deep relaxation, heightened focus, creative flow, or restorative sleep.

From Singing Bowls to Synthesizers

Humans have used sound for altered states of consciousness for thousands of years. Tibetan singing bowls, tuned to specific frequencies, have been part of meditation practice since at least the 12th century. Gregorian monks chanted in patterns that, when analyzed with modern tools, align closely with frequencies now associated with deep meditative states. Indigenous cultures worldwide developed drumming traditions where the tempo, typically 4 to 8 beats per second, falls squarely in the Theta brainwave range associated with trance and visionary experience.

What has changed is precision. Where ancient practitioners relied on intuition and tradition, we now have the tools to generate exact frequencies with mathematical accuracy. A singing bowl might produce a tone somewhere around 432 Hz. A digital synthesizer can produce exactly 432.000 Hz, sustained indefinitely, combined with a binaural beat at precisely 6 Hz, layered with ambient sounds tuned to complementary frequencies, all in real time.

This is the bridge between ancient wisdom and modern neuroscience. The principles are old. The tools are new. And together, they open up possibilities that neither tradition alone could achieve.

Why This Matters for Your Daily Life

You do not need to be a meditator to benefit from frequency-based sound. The applications are practical and immediate.

Specific frequencies can help your brain transition into deep sleep states, potentially reducing the time it takes to fall asleep and improving sleep quality. Other frequencies are associated with alert, concentrated states, making them useful for demanding work, studying, or creative projects. Certain frequency ranges are linked to parasympathetic nervous system activation, which counteracts the fight-or-flight stress response. Athletes and wellness practitioners use targeted frequencies as part of recovery protocols, leveraging the body's natural response to specific sound patterns.

The key insight is that these are not vague, mystical effects. They are measurable physiological responses to specific auditory stimuli. And once you understand the map, which

frequencies do what, you gain a practical tool for influencing your own mental and physical state.

That map is exactly what the next chapter provides.

The Sine app generates all frequencies in real time at 44.1kHz sample rate, with no pre-recorded files and no compression artifacts. Every session is mathematically precise.

Chapter 2: The Frequency Spectrum, from Delta to Gamma

Your brain produces electrical activity across a spectrum of frequencies, each associated with different states of consciousness. Understanding these ranges is the foundation of frequency-based wellness. Think of it as learning the alphabet before you write: once you know what each range does, you can compose sessions tailored to exactly what you need.

Delta Waves (0.5 to 4 Hz): The Deep Healer

Delta is the slowest brainwave frequency your brain produces, and it dominates during the deepest stages of dreamless sleep. This is when your body does its most critical repair work, including tissue regeneration, immune system strengthening, growth hormone release, and memory consolidation.

You do not consciously experience Delta waves because you are deeply asleep (or in very deep meditation) when they dominate. What you experience is the result: waking up feeling physically restored, mentally clear, and emotionally stable.

Delta frequencies are best used before bed to help your brain transition into deep sleep, during recovery from illness or intense physical training, when you feel depleted and need genuine restoration, or in the early hours of the night when deep sleep naturally occurs. For settings, a binaural beat between 1 and 3 Hz works well, with sessions lasting 20 to 45 minutes. Brown noise, rain sounds, or ocean waves pair beautifully with Delta work.

A 2019 study published in *Sleep Medicine Reviews* found that auditory stimulation at Delta frequencies during sleep onset significantly increased the proportion of slow-wave sleep in participants. Another study in *Frontiers in Human Neuroscience* (2018) demonstrated that Delta-frequency binaural beats reduced pre-sleep anxiety scores compared to a control group.

Delta frequencies are powerful. Start with shorter sessions of 15 to 20 minutes and work your way up. If you fall asleep during a session, that is not a failure. It is the intended outcome.

Theta Waves (4 to 8 Hz): The Gateway to Meditation

Theta waves are associated with the hypnagogic state, that twilight zone between waking and sleeping where your mind becomes deeply creative, intuitive, and open to insight. Experienced meditators show elevated Theta activity during deep practice. It is also the dominant frequency during REM sleep, when dreaming occurs.

When Theta waves dominate, you experience a sense of deep inward focus. Thoughts may become more visual and less verbal. Time perception shifts, and twenty minutes might feel like five. Creative ideas and connections seem to arise spontaneously. You may experience vivid mental imagery.

Theta frequencies work wonderfully during meditation practice, for creative work such as brainstorming, writing, or music composition, before journaling to access subconscious insights, during visualization exercises, and in the late evening to wind down from an active day. A binaural beat between 5 and 7 Hz is recommended, with sessions lasting 15 to 30 minutes. Forest sounds, bamboo chimes, and soft rainfall complement Theta sessions beautifully.

A study in *Consciousness and Cognition* (2015) showed that Theta-frequency binaural beat stimulation improved creative thinking as measured by divergent thinking tasks. Research from the University of Oregon found that regular Theta meditation practice was associated with increased cortical thickness in brain regions linked to attention and emotional regulation.

Theta sessions work best when you are sitting comfortably with your eyes closed. Lying down increases the chance of falling asleep, which is fine if that is your goal but counter-productive for meditation or creativity.

Alpha Waves (8 to 13 Hz): The Calm Focus Zone

Alpha waves are your brain's default idle state, the frequency of relaxed alertness. When you close your eyes and take a few deep breaths, your brain naturally shifts toward Alpha. It is the bridge between the external focus of Beta and the internal focus of Theta, making it the ideal range for entering flow states.

When Alpha waves are dominant, you experience a sense of calm presence. Your mind is alert but not racing. You feel centered and grounded. Physical tension releases. You are aware of your surroundings without being distracted by them.

Alpha frequencies serve as an excellent daily reset during breaks, a preparation for creative or analytical work, a recovery tool after stressful situations, a companion during gentle yoga or stretching, and a morning routine to set a calm, focused tone for the day. A binaural beat at 10 Hz is widely studied and associated with calm alertness. Sessions of 10 to 20 minutes work well, paired with meadow sounds, gentle wind, or light rain.

Alpha is one of the most extensively studied brainwave frequencies. A meta-analysis in *Neuroscience & Biobehavioral Reviews* (2020) found consistent evidence that Alpha-frequency stimulation reduces perceived stress and improves mood. Research published in *NeuroImage* linked elevated Alpha power to improved working memory performance. If you are new to frequency-based wellness, Alpha is the best place to begin. The effects are noticeable, pleasant, and unlikely to cause drowsiness during the day.

Beta Waves (13 to 30 Hz): The Active Mind

Beta waves dominate during active, focused mental work. Your brain is in Beta right now, as you read and process these words. This range is further subdivided into low Beta (13

to 15 Hz, relaxed focus), mid Beta (15 to 20 Hz, active thinking), and high Beta (20 to 30 Hz, intense concentration or anxiety).

At the lower end, Beta feels like focused but relaxed engagement, the state of a good conversation or light work. At the higher end, it is intense concentration or, if unchecked, the racing thoughts of anxiety.

Beta frequencies support work that requires sustained attention such as writing, coding, or analysis, as well as studying, learning new material, sharpening mental clarity after waking, and preparing for presentations or meetings. A binaural beat between 14 and 18 Hz provides focused alertness without tension. Sessions of 20 to 45 minutes pair well with white or pink noise at minimal distraction levels, or gentle rain.

A study in *Physiology & Behavior* (2017) found that Beta-frequency binaural beat stimulation improved sustained attention and reaction time on cognitive tasks. Research in *Biological Psychology* showed that low Beta stimulation enhanced verbal memory recall. One word of caution: avoid high Beta frequencies above 20 Hz in the evening or if you are already feeling stressed. High Beta is associated with anxiety, and stimulating it when you are already activated can be counterproductive. Stick to low Beta between 13 and 16 Hz for most focus applications.

Gamma Waves (30 to 100 Hz): Peak Cognition

Gamma is the fastest brainwave frequency and the least understood. It is associated with moments of insight, high-level information processing, and the binding of sensory information into unified conscious experience. Studies of experienced meditators, particularly Tibetan monks with tens of thousands of hours of practice, show unusually high Gamma activity.

Gamma feels like heightened perception, clarity, and a sense of everything clicking together. People often describe it as moments of insight or sudden understanding. It is not easily sustained for long periods.

Gamma frequencies are best suited for advanced meditation practice, short bursts of intense cognitive work, moments when you seek creative insight or problem-solving breakthroughs, and in combination with other frequencies in sequenced sessions. A binaural beat between 32 and 40 Hz works well, with shorter sessions of 5 to 15 minutes. Gamma work benefits from auditory simplicity, so minimal ambient sound is recommended.

A landmark study by Antoine Lutz and colleagues, published in *Proceedings of the National Academy of Sciences* (2004), found that experienced meditators produced Gamma activity levels far beyond anything previously recorded. More recent research in *NeuroImage* (2021) suggests that Gamma-frequency stimulation may support cognitive function and memory processes.

Quick Reference: The Brainwave Spectrum

Frequency Range	Name	State	Best For	Session Duration
0.5 to 4 Hz	Delta	Deep sleep	Rest, healing, recovery	20-45 min
4 to 8 Hz	Theta	Deep meditation	Meditation, creativity, insight	15-30 min
8 to 13 Hz	Alpha	Relaxed alertness	Calm focus, stress relief, flow	10-20 min
13 to 30 Hz	Beta	Active focus	Work, study, concentration	20-45 min
30 to 100 Hz	Gamma	Peak cognition	Advanced meditation, insight	5-15 min

How to Choose the Right Frequency

The simplest approach is to start with your goal, not the frequency. Ask yourself what you need right now.

If you need to sleep, reach for Delta with a binaural beat between 1 and 3 Hz. If you want to meditate deeply, Theta at 5 to 7 Hz will guide you inward. If you need to calm down and reset, Alpha at 10 Hz provides gentle relief. If you need to focus on demanding work, low Beta between 14 and 16 Hz sharpens your attention. And if you want a creative breakthrough, try either Theta at 6 Hz for open-ended ideation or Gamma at 35 Hz for a flash of insight.

As you gain experience, you will develop an intuitive sense for which frequency your body and mind are asking for. Many practitioners describe this as becoming “frequency literate,” where you start to recognize your own brainwave state and know which direction to shift it.

In the Sine app, you can set your base frequency and binaural beat with precision down to 0.1 Hz. No guesswork, no approximation, just the exact frequency you need.

Chapter 3: Solfeggio Frequencies, Ancient Tones and Modern Science

The Rediscovery

In the 1970s, Dr. Joseph Puleo, a naturopathic physician and researcher, became fascinated by a set of six frequencies he found encoded in the Book of Numbers, a text of the Hebrew Bible. Using a system of mathematical reduction, Puleo identified what he believed to be a scale of sacred tones used in ancient Gregorian chants, frequencies that the Catholic Church had largely abandoned centuries earlier.

Whether or not you accept the biblical derivation, the frequencies themselves have become one of the most discussed topics in sound-based wellness. The original six were later expanded to nine, and each has been associated with specific effects by practitioners and, increasingly, by researchers.

The Solfeggio frequencies are not brainwave frequencies, which operate below 100 Hz. They are audible tones, specific pitches you can hear, each with a distinct character and resonance. Think of them as the “notes” of a wellness scale, while binaural beats are the “rhythm” that guides your brainwaves.

The Nine Solfeggio Frequencies

174 Hz, The Foundation. The lowest Solfeggio frequency. Practitioners associate it with a sense of physical grounding and security. It is often described as a natural anaesthetic, reducing sensations of physical tension. In practice, 174 Hz creates a deep, warm tone that feels stabilizing and rooted. It is best used for physical relaxation, grounding, and easing tension.

285 Hz, Cellular Renewal. Said to influence energy fields and promote tissue repair. While direct evidence for cellular effects is limited, practitioners consistently report a sense of physical warmth and rejuvenation when listening to this frequency. The tone has a slightly more energetic quality than 174 Hz, making it well suited for recovery sessions and post-workout use.

396 Hz, Liberation. Associated with releasing guilt and fear, two emotions that create some of the most persistent stress patterns in the body from a psychological perspective. The tone has a grounding, resolving quality that many find emotionally releasing. It works well for emotional processing, letting go of persistent worries, and evening wind-down sessions.

417 Hz, Facilitating Change. Linked to undoing negative patterns and facilitating positive change. In therapeutic sound practice, 417 Hz is used to help shift stuck emotional states. The tone has a gently energizing quality without being stimulating, which makes it ideal for transitions, breaking habits, and morning intention-setting.

528 Hz, The Love Frequency. This is the most famous and most studied Solfeggio frequency. A 2018 study published in the *Journal of Addiction Research & Therapy*

found that 528 Hz music significantly reduced anxiety in participants compared to a control group. Separate research in *Life Sciences* found that 528 Hz exposure reduced cortisol levels in cell cultures. In the world of sound therapy, 528 Hz is considered a master frequency, harmonizing, balancing, and universally applicable. It is best used for general wellness, stress reduction, heart-centered meditation, and daily practice.

639 Hz, Connection. Associated with interpersonal harmony and communication. The tone has a warm, open quality that practitioners use for relationship-focused meditations and heart-opening practices. It works well before difficult conversations, during relationship meditation, and in group sessions.

741 Hz, Expression. Linked to self-expression, clarity, and detoxification. In musical terms, 741 Hz has a bright, clear quality that cuts through mental fog. Practitioners use it for creative blocks and communication clarity. It is best suited for creative work, overcoming communication challenges, and achieving mental clarity.

852 Hz, Intuition. Associated with heightened awareness and connection to intuitive faculties. The tone is often described as spiritual, high and clear without being harsh. It is frequently used in advanced meditation practice for developing deeper contemplation and awareness.

963 Hz, Unity. The highest Solfeggio frequency, associated with a sense of oneness and connection to something larger than the self. The tone is bright and expansive. Practitioners often use it as a capstone frequency in longer sessions, especially for advanced meditation and closing ceremonies.

The 432 Hz Conversation

No discussion of Solfeggio frequencies is complete without addressing the 432 Hz versus 440 Hz tuning debate.

In 1955, the International Organization for Standardization set 440 Hz as the standard concert pitch, the note A above middle C. But many musicians and sound practitioners argue that 432 Hz is a more natural tuning that aligns better with mathematical patterns found in nature, including the Golden Ratio and the Fibonacci sequence.

The evidence is mixed but growing. A 2019 study in *Music Perception* found that participants rated music tuned to 432 Hz as slightly more pleasant and calming than the same pieces tuned to 440 Hz, though the differences were modest. A study from Italy in *EXPLORE: The Journal of Science and Healing* found that 432 Hz music produced a slight decrease in heart rate and blood pressure compared to 440 Hz.

Whether the difference is transformative or subtle, it is a deliberate choice in sound design. In the Sine app, all 44 ambient sounds, from ocean waves to bamboo chimes, from forest soundscapes to ceremonial drums, are tuned to 432 Hz. This means that when you layer these sounds with your chosen base frequency and binaural beat, the entire sonic environment is harmonically consistent.

Combining Solfeggio with Binaural Beats

The real power of Solfeggio frequencies emerges when you combine them with binaural beats. A 528 Hz base frequency paired with a 6 Hz Theta binaural beat creates a deeply meditative session centered on the most studied Solfeggio tone. Setting the base to 396 Hz with a 2 Hz Delta binaural beat produces a sleep-oriented session focused on releasing emotional tension. And combining 741 Hz with a 14 Hz Beta binaural beat gives you a clarity-focused work session that blends expression with concentration.

This layering approach, using a Solfeggio frequency as the audible tone and a binaural beat as the brainwave guide, gives you precise control over both what you hear and what your brain does in response to it.

Sine lets you set any base frequency between 20 Hz and 20,000 Hz, including all nine Solfeggio frequencies. Combine them with any binaural beat from 0.5 Hz to 40 Hz to create sessions that are uniquely yours.

Chapter 4: Binaural Beats, How Two Tones Change Your Brain

A 19th-Century Phenomenon with 21st-Century Applications

In 1839, Prussian physicist Heinrich Wilhelm Dove made a curious observation. When two tones of slightly different frequencies were presented separately to each ear, the listener perceived a third tone, a pulsing rhythm that existed only inside the brain. Dove called these “binaural beats,” from the Latin *bini* (two at a time) and *auris* (ear).

For over a century, the discovery remained a scientific curiosity. It was not until 1973, when Gerald Oster published “Auditory Beats in the Brain” in *Scientific American*, that the phenomenon was connected to brainwave entrainment and its potential practical applications became clear.

How Binaural Beats Work

The mechanism is elegant in its simplicity.

When your left ear receives a tone at 200 Hz and your right ear receives a tone at 210 Hz, your brain does not simply hear two separate pitches. Instead, it perceives the mathematical difference between them, in this case 10 Hz, as a rhythmic pulsation superimposed on the audible tone.

This 10 Hz beat is not a physical sound wave. It exists only as a neurological event, generated by the superior olivary complex in your brainstem as it processes the conflicting inputs from each ear. And because this beat occurs at 10 Hz, squarely in the Alpha brainwave range, your brain’s electrical activity begins to synchronize with it through the Frequency Following Response described in Chapter 1.

The formula is simple: the right ear frequency minus the left ear frequency equals the binaural beat frequency. If you want a 6 Hz Theta beat, you play 200 Hz in the left ear and 206 Hz in the right. For a 2 Hz Delta beat, play 200 Hz in the left and 202 Hz in the right. The base frequency determines the audible pitch you hear, while the binaural beat frequency determines the brainwave state you are guiding your brain toward.

Why Headphones Are Required

This is not optional. Binaural beats require that each ear receives a different frequency, which is only possible with headphones or earbuds. If you play binaural beats through speakers, the two tones mix in the air before reaching your ears, and the neurological effect is lost.

Use any quality headphones, whether over-ear, in-ear, or earbuds. The key requirement is stereo separation: each ear must receive its own distinct signal.

What the Research Shows

Binaural beat research has expanded significantly over the past two decades.

Regarding anxiety reduction, a meta-analysis published in *Psychological Research* (2023) examined 22 studies and found a moderate, statistically significant effect of binaural beat stimulation on reducing state anxiety. The strongest effects were observed with Theta and Alpha frequency beats.

On the topic of sleep improvement, research in *Frontiers in Psychiatry* (2018) found that participants who listened to Delta-frequency binaural beats before sleep showed increased slow-wave sleep duration and reported improved subjective sleep quality.

For cognitive performance, a study in *Physiology & Behavior* (2017) demonstrated that Beta-frequency binaural beats improved sustained attention and reduced error rates on a vigilance task compared to both silence and non-binaural control tones.

In the area of pain perception, a controlled trial published in *Anaesthesia* (2005) found that patients who listened to Delta-frequency binaural beats required significantly less of the anaesthetic fentanyl during surgical procedures.

Concerning meditation depth, EEG studies of meditators using Theta binaural beats consistently show deeper meditative states compared to meditation in silence, particularly for less experienced practitioners.

It is important to note that research quality varies and that binaural beats are not a medical treatment. They are a tool, one supported by a growing body of evidence, for influencing brainwave patterns. Individual responses vary, and consistent practice tends to produce stronger effects than occasional use.

Binaural vs. Monaural vs. Isochronic Tones

Binaural beats are not the only form of auditory brainwave entrainment. Understanding the differences helps you choose the right approach.

Binaural beats present two different frequencies to each ear, and the beat is generated neurologically. They require headphones and are the most studied and widely used method. The effect is subtle and cumulative.

Monaural beats combine two frequencies into a single signal before it reaches the ears. The beat is a physical sound wave, audible even through speakers. Many describe monaural beats as more immediately noticeable but less nuanced in their neurological effect.

Isochronic tones are a single tone that is turned on and off at regular intervals, creating a rhythmic pulse. They are the sharpest and most noticeable of the three types and work through speakers. Some find the pulsing quality distracting for relaxation, though it can be effective for focus applications.

For deep meditation and sleep work, binaural beats are generally preferred because their subtlety allows the brain to entrain without the conscious distraction of an audible pulse. For focus and alertness, all three types have their advocates.

Why Real-Time Generation Matters

Here is something most people do not consider: the way a binaural beat is generated affects its precision.

A pre-recorded MP3 binaural beat file undergoes compression during encoding. MP3 compression works by removing audio information that the algorithm deems inaudible, but the subtle frequency differences that create binaural beats are exactly the kind of information that compression algorithms tend to discard or distort. The result is a file that may sound similar to a binaural beat but has lost the mathematical precision that makes it effective.

Real-time synthesis eliminates this problem entirely. When frequencies are generated live by a digital synthesizer, as they are in the Sine app at a 44.1kHz sample rate, the mathematical relationship between the left and right channels is exact. If you set a 6 Hz Theta binaural beat with a 200 Hz base frequency, you get precisely 200.000 Hz in one ear and 206.000 Hz in the other. No compression. No approximation. No degradation. This is the difference between a photocopy and the original.

Every binaural beat in Sine is synthesized in real time. No audio files, no compression, no loss of precision. The frequencies you set are the frequencies your brain receives.

Chapter 5: Your Personal Frequency Recommendation

Now that you understand the science, it is time to apply it. This chapter provides specific, actionable recommendations based on your primary goal. Find the section that matches what you need most, and you will have everything required to start your first session.

Before reading on, pause and ask yourself: what is the single biggest challenge in my daily life right now? If it is sleep, go to the Sleep Protocol. If it is concentration and productivity,

the Focus Protocol is for you. If stress and anxiety are your primary concern, the Calm Protocol will help. For low energy and fatigue, turn to the Energy Protocol. If you want to deepen your meditation and mindfulness practice, the Meditation Protocol awaits. And if creative blocks are holding you back, the Creativity Protocol will get you moving.

Each protocol includes exact settings, optimal timing, and step-by-step instructions.

Sleep Protocol

Your challenge: Difficulty falling asleep, staying asleep, or waking up feeling unrested. Delta waves at 1 to 3 Hz guide your brain toward the deep sleep state, while calming ambient sounds mask environmental noise and signal rest time to your nervous system. Set your base frequency to 174 Hz (the Solfeggio grounding frequency) or 396 Hz (for emotional release), with a binaural beat at 2 Hz for deep Delta. Layer in rain, ocean waves, or brown noise at low volume, just loud enough to be present without commanding attention. Sessions of 30 to 45 minutes work best, set to fade out gradually. Begin about 20 minutes before your target sleep time.

Your first session, step by step. Put on comfortable headphones and lie in bed with the lights off. Start the session and close your eyes. Take five slow, deep breaths, inhaling for 4 counts, holding for 4, and exhaling for 6. Let the sound wash over you without trying to analyze or follow it. If thoughts arise, let them pass like clouds and return your attention gently to the sound. Do not worry about staying awake. If you fall asleep, the session is working exactly as intended.

For optimal results, use the same session for at least 5 consecutive nights to establish an association. Avoid screens for 30 minutes before starting. Keep the room cool and dark. If you wake during the night, restart the session.

Focus Protocol

Your challenge: Difficulty concentrating, mental fog, or being easily distracted during work.

Low Beta waves at 14 to 16 Hz promote sustained attention without the tension of high Beta. Set your base frequency to 741 Hz (the Solfeggio clarity frequency) or 528 Hz (for general balance), with a binaural beat at 15 Hz. Add white noise or pink noise at low volume, or minimal rain. Keep the volume moderate, present enough to maintain the frequency but low enough not to distract. Sessions of 25 to 45 minutes align well with Pomodoro or deep work blocks. Start at the beginning of your most important work block, typically in the morning.

Your first session, step by step. Put on headphones at your workspace. Open the task you intend to work on before starting the audio. Start the session and begin working immediately, without waiting for the frequency to kick in. If you notice your attention drifting, take one deep breath and refocus on your task. After the session ends, take a 5-minute break before starting another.

Do not combine focus sessions with music that has lyrics, as the additional processing load reduces focus. Keep your phone in another room or in Do Not Disturb mode. Hydrate

before starting, because dehydration impairs focus more than most people realize. Stack sessions for extended work: 25 minutes on, 5 minutes silence, 25 minutes on.

Calm Protocol

Your challenge: Feeling stressed, anxious, overwhelmed, or unable to relax.

Alpha waves at 10 Hz activate the parasympathetic nervous system and shift your brain out of the stress response. Set your base frequency to 528 Hz, the Solfeggio frequency most studied for stress reduction, with a binaural beat at 10 Hz. Layer in forest, meadow, or gentle river sounds at a comfortable volume, like a warm blanket of sound. Sessions of 10 to 20 minutes are sufficient. Use this protocol when you feel stress building, during lunch breaks, or after work as a transition ritual.

Your first session, step by step. Find a quiet place where you will not be interrupted. Sit comfortably; you do not need to lie down. Put on headphones and start the session. Close your eyes and let your shoulders drop. Breathe naturally without forcing any pattern. Notice the sounds without judging or analyzing them. After the session, sit in silence for 1 to 2 minutes before returning to activity.

A 10-minute Alpha session is more effective than a 30-minute attempt at willpower-based calm. Build this into your daily routine, same time, same place, for compounding benefits. Even one session can measurably reduce cortisol levels. Pair with 2 to 3 minutes of box breathing before starting for amplified effects.

Energy Protocol

Your challenge: Low energy, sluggishness, difficulty starting tasks, afternoon slumps. Mid Beta waves at 18 to 20 Hz promote mental alertness. Set your base frequency to 417 Hz (the Solfeggio frequency for facilitating change) or 528 Hz, with a binaural beat at 18 Hz. For ambient sounds, campfire crackle or bamboo chimes add warmth, or go with no ambient at all for a pure tone experience. Keep the volume moderate to slightly above moderate. Sessions of 10 to 15 minutes work best. Use this protocol in the morning within 30 minutes of waking, or during the 2 to 3 PM energy dip.

Your first session, step by step. Put on headphones while sitting or standing, not lying down. Start the session. Take three sharp, energizing breaths: inhale quickly through the nose, exhale firmly through the mouth. Keep your eyes open during the session. If possible, stand up or walk slowly while listening. After the session, immediately begin your next activity and ride the momentum.

Do not use this protocol within 3 hours of bedtime. Combine with cold water on your face or wrists for a physiological boost. Keep sessions short, because energy protocols work through activation, not duration. Follow with a focus protocol if you are transitioning into deep work.

Meditation Protocol

Your challenge: Difficulty quieting the mind, maintaining a meditation practice, or reaching deeper states.

Theta waves at 5 to 7 Hz guide the brain into the meditative state that experienced practitioners access naturally. Set your base frequency to 852 Hz (the Solfeggio frequency for intuition) or 963 Hz (for unity), with a binaural beat at 6 Hz. Layer in forest sounds, night ambience, or bamboo chimes at low to moderate volume. Sessions of 15 to 30 minutes are ideal. Practice in the morning before the day's mental activity begins, or in the evening as a wind-down ritual.

Your first session, step by step. Sit in a comfortable, upright position with your spine straight and shoulders relaxed. Put on headphones and start the session. Close your eyes. Spend the first 2 minutes simply listening, with no meditation technique, just awareness of the sound. Gradually let the sound become background as your attention turns inward. When thoughts arise, notice them without engagement and return to the sound. At the end of the session, take three slow breaths before opening your eyes.

Consistency matters more than duration. Ten minutes daily beats 60 minutes weekly. Theta frequencies make meditation noticeably easier for beginners. Track your sessions and note which frequencies resonate with you over time. Gradually increase session length as your practice deepens.

Creativity Protocol

Your challenge: Creative blocks, difficulty generating ideas, feeling stuck.

Theta waves at 5 to 6 Hz access the subconscious mind where creative associations form, and transitioning to Alpha at 10 Hz supports the execution phase. Set your base frequency to 741 Hz (the Solfeggio frequency for expression) or 639 Hz (for connection), with a binaural beat at 6 Hz. Layer in rain and thunder, ocean sounds, or shaman drums at moderate volume. Plan for 15 to 20 minutes of Theta, then switch to Alpha for active creation. Use this protocol before your creative work session, or when you feel stuck on a problem.

Your first session, step by step. Have your creative tools ready (notebook, instrument, design software) but set them aside. Put on headphones and start the Theta session. Close your eyes and let your mind wander freely. Do not try to solve your creative challenge; let ideas surface on their own. If a strong idea appears, make a brief mental note but do not open your eyes to write it down. After 15 minutes, transition to an Alpha setting and begin your creative work immediately. Create without judgment for at least 20 minutes, because editing comes later.

The Theta phase is for ideation and the Alpha phase is for execution, so do not mix them. Keep a notebook nearby to capture ideas that arise after the session. Many creatives report that their best ideas appear not during the session but in the hours afterward. Combine with the “First Thought, Best Thought” practice and do not dismiss early ideas.

The Sine app includes an AI Creator that can generate a personalized frequency session based on your mood and goal. Describe what you are feeling, and it will build the settings for you.

Chapter 6: The 7-Day Frequency Challenge

Knowing the theory is valuable. Practicing it is transformative. This seven-day challenge is designed to give you a structured, progressive introduction to the full spectrum of frequency-based wellness. Each day builds on the previous one, gradually expanding your experience from simple Alpha relaxation to a fully sequenced multi-state journey.

You will need headphones (any quality stereo headphones or earbuds), 10 to 30 minutes per day, a quiet space (it does not need to be silent, as the frequencies and ambient sounds will mask most background noise), and optionally a journal for recording observations.

Read the setup before starting each day. Do not skip days, because the progression is intentional. Notice what you notice, as there are no wrong experiences. Write brief notes after each session if you can, because patterns emerge over a week that you will not see in a single session.

Day 1: Foundation, Your First Alpha Session

The goal today is to experience the Frequency Following Response firsthand and establish a baseline for calm focus.

Set your base frequency to 528 Hz with a 10 Hz Alpha binaural beat. Add light rain at low volume. The session should last 10 minutes.

Sit comfortably with your eyes closed. For the first minute, simply listen. Notice the tone, the subtle pulsing of the binaural beat, the rain. After one minute, shift your attention to your body. Notice where you hold tension. Let the sound wash over those areas without forcing anything. For the last three minutes, simply be present without trying to achieve any particular state. When the session ends, sit in silence for 60 seconds before opening your eyes.

Most people experience a subtle shift in mental state within the first 3 to 5 minutes, a softening, a slight sense of the mind settling. If you do not notice anything dramatic, that is completely normal. The effects are often more apparent in hindsight than in the moment.

Journal prompt: How did my mental state before the session compare to after? What, if anything, did I notice physically?

Day 2: Deep Calm, Theta Exploration

Today you will move deeper than Alpha into the Theta range. The goal is to experience the meditative quality of slower brainwave frequencies.

Set your base frequency to 852 Hz with a 6 Hz Theta binaural beat. Add forest sounds at moderate volume. The session should last 15 minutes.

Sit comfortably with your spine upright and hands resting on your knees or lap. Close your eyes and take five slow, deep breaths. Let the sound become your anchor. When your mind wanders, return to the sound. You may notice visual imagery behind your closed eyes; let it play without engaging. Time may feel distorted, which is normal in Theta states. When the session ends, stay seated for two minutes, because the transition back to normal waking consciousness should be gentle.

Theta is a deeper state than Alpha. You may feel a sense of floating, heaviness in your limbs, or a dreamlike quality to your thoughts. Some people experience vivid mental imagery or sudden insights. Others simply feel deeply relaxed. All responses are valid.

Journal prompt: Did I experience any visual imagery or spontaneous thoughts? How did my sense of time change during the session?

Day 3: Sleep Protocol, Delta Before Bed

The goal tonight is to experience Delta frequency stimulation as a sleep aid and observe its effect on sleep onset and sleep quality.

Set your base frequency to 174 Hz with a 2 Hz Delta binaural beat. Add ocean waves or brown noise. The session should last 30 minutes, set to auto-stop or gradual fade-out.

Complete your normal bedtime routine first (brushing teeth, dimming lights). Get into bed and put on comfortable headphones or earbuds. Start the session with the lights off. Lie on your back or in your preferred sleep position. Take three slow breaths and release any intention to “try” to fall asleep. Let the deep, slow pulse of the Delta beat guide your breathing naturally. If you are still awake when the session ends, do not restart it. Simply lie in the silence, because the entrainment effect continues after the sound stops.

Delta sessions are unique because the goal state is unconsciousness. You may not remember the second half of the session at all, which means it worked. Pay attention to how you feel when you wake the next morning.

Journal prompt (in the morning): How long did it take to fall asleep compared to a normal night? How did I feel upon waking?

Day 4: Focus Day, Beta for Productivity

Today you will use Beta frequencies to enhance concentration during actual work and experience the difference between focused and unfocused work states.

Set your base frequency to 741 Hz with a 15 Hz low Beta binaural beat. Add pink noise at low volume, or none at all. The session should last 25 minutes.

Choose a specific task that requires sustained attention, such as writing, coding, studying, or deep reading. Set up your workspace, remove distractions, and close unnecessary tabs and apps. Put on headphones and start the session. Begin working immediately, because the frequency will support your focus as it entrains. If you catch yourself distracted, take one slow breath and return to the task. When the session ends, take a 5-minute break before deciding whether to continue. Notice the quality and quantity of work you produced.

Beta sessions are not about feeling relaxed. You should feel alert, engaged, and present. The experience is less meditative and more like being in a zone of productive flow. Many people report completing tasks faster than usual or producing higher-quality work.

Journal prompt: How did my focus compare to a typical work session without frequencies? Did I notice any difference in the quality of my work?

Day 5: Creativity Unlock, Theta with Ambient Layering

Today combines Theta frequencies with rich ambient layering to access a creative, visionary state. You will experience how sound layers deepen the immersive quality.

Set your base frequency to 639 Hz with a 5 Hz low Theta binaural beat. Add rain at moderate volume and bamboo chimes at low volume, creating two ambient layers. The session should last 15 minutes.

Have a creative intention in mind, whether it is a problem to solve, a project to ideate on, or a question to explore. State your intention silently to yourself, then release it. Do not actively think about it during the session. Close your eyes and let the layered sounds create a rich internal landscape. Allow your mind to wander freely. Follow any images, ideas, or associations that arise. Do not judge or evaluate during the session, because this is divergent thinking time. When the session ends, immediately write down whatever came to mind without filtering. Spend 10 minutes after the session working on your creative project.

The combination of two ambient layers with the base frequency and binaural beat creates a more immersive soundscape. This depth often helps the mind disengage from analytical thinking more quickly. Pay attention to the quality of ideas that arise, as they may seem unusual or unexpected.

Journal prompt: What ideas or images arose during the session? Did anything surprise me? How did the layered ambient sounds change the experience compared to previous days?

Day 6: Energy Reset, Beta with Solfeggio 528 Hz

Today you will use a stimulating frequency combination as a morning energy practice and experience the activating quality of mid-range Beta combined with 528 Hz.

Set your base frequency to 528 Hz with an 18 Hz mid Beta binaural beat. Add campfire or crackling fire at low volume. The session should last 10 minutes.

Do this session within 30 minutes of waking up. Sit upright or stand; do not lie down for this one. Put on headphones and start the session. Keep your eyes open. Look at a neutral point in the room. Take three sharp, energizing breaths to start. During the session, gently stretch your neck, shoulders, and arms. Notice the shift in alertness and energy as the session progresses. After the session, drink a full glass of water and begin your day.

This session should feel qualitatively different from the calming sessions earlier in the week. The mid-Beta frequency range promotes wakefulness and mental sharpness. Combined with 528 Hz, many people describe a feeling of centered energy, alert without being anxious.

Journal prompt: How did my energy level in the first hour after waking compare to a typical morning? Did the session change my mood or motivation?

Day 7: Integration, A Sequenced Multi-State Journey

Today is the culmination of the week. You will experience a full frequency journey that moves through multiple brainwave states in a single session. This is the most advanced and most rewarding type of frequency session.

The session has four phases. Phase 1, Arrival, runs from the start to minute 7, using a 528 Hz base frequency with a 10 Hz Alpha binaural beat and meadow sounds. Phase 2, Descent, runs from minute 7 to minute 17, shifting to an 852 Hz base with a 6 Hz Theta beat and forest sounds. Phase 3, Deep Rest, runs from minute 17 to minute 25, dropping to a 174 Hz base with a 2 Hz Delta beat and brown noise. Phase 4, Ascent, runs from minute 25 to minute 30, returning to the 528 Hz base with a 10 Hz Alpha beat and meadow sounds, gently bringing you back to where you started.

Set aside a full 35 minutes, with 30 for the session and 5 for integration afterward. Sit or lie down in a comfortable position. Put on headphones and start the session. Close your eyes and surrender to the journey. Do not try to identify which phase you are in; simply notice the shifts as they occur. Allow the transitions to carry you, because each phase has its own quality and depth. When the session ends, lie still for 5 full minutes. This integration time is essential. Open your eyes slowly and reorient to your environment.

A sequenced session is a fundamentally different experience from a single-frequency session. The transitions between states create a sense of movement and depth that static sessions cannot achieve. Many practitioners describe their first multi-state journey as a turning point in their understanding of what frequency-based wellness can do.

Journal prompt: How did the four phases feel different from each other? Which phase was most impactful? How do I feel compared to Day 1? What has this week taught me about my own response to frequencies?

The Sine app's Sequencer lets you automate transitions between frequency states over time, creating exactly the kind of multi-phase journey described in Day 7. Set your waypoints and let the engine handle the transitions.

Chapter 7: Advanced Techniques, Layering, Ambient Sounds, and Sequencing

If you completed the 7-Day Challenge, or even if you have been experimenting on your own, you have already experienced the fundamentals. This chapter introduces the techniques that experienced practitioners use to create sessions of remarkable depth and precision.

Sound Layering: The Art of Building Sonic Environments

A single tone and a binaural beat are effective on their own. But the human brain processes sound holistically. It does not isolate the frequency from the texture, the rhythm, or the spatial positioning. This is why adding carefully chosen ambient sounds and noise layers can dramatically deepen the experience.

Think of it like building a painting. The base frequency is the canvas. The binaural beat is the composition. Ambient sounds are the color and texture. Noise is the atmosphere.

The first layer is always your base frequency combined with the binaural beat. Choose these based on your goal (sleep, focus, meditation) as described in previous chapters. This is your foundation.

The second layer consists of ambient sounds. Natural soundscapes serve multiple purposes: they mask distracting environmental noise, they provide familiar auditory cues that help the brain relax (rain, ocean, and forest are all safety signals), and they add harmonic complexity that enriches the experience. When ambient sounds are tuned to 432 Hz, as all Sine ambient sounds are, they harmonize with your base frequency rather than clashing.

The third layer uses noise generators. White noise contains equal energy at all frequencies and sounds like television static. It is useful for masking a wide range of environmental sounds and works best for focus work and as a background layer. Pink noise reduces energy at higher frequencies, creating a warmer, more natural sound similar to steady rainfall. Research published in *Frontiers in Human Neuroscience* (2017) found that pink noise synchronized with brainwave activity during sleep significantly improved deep sleep and memory consolidation. Pink noise is best for sleep and relaxation. Brown noise reduces higher frequencies even further, producing a deep, rumbling sound like distant thunder or ocean surf. It is the warmest of the three and is particularly effective for anxiety reduction. Brown noise is best for deep relaxation and calming overstimulated nervous systems.

When layering sounds, remember that less is more. Two well-chosen layers beat five competing ones. Keep ambient sounds 30 to 40 percent lower in volume than your base frequency. Choose ambient sounds that match the energy of your session, such as rain for calm, fire for warmth, or drums for energy. Use noise generators as a subtle background texture, not as the primary sound.

Spatial Audio: Sound in Three Dimensions

The brain processes spatial audio, sound that appears to come from specific locations around you, differently from flat stereo sound. When an ambient sound seems to emanate from above and to your left while another sound arrives from below and to your right, your brain creates a three-dimensional soundscape that is significantly more immersive than a standard stereo mix.

This spatial processing engages additional neural pathways, deepening the meditative experience and making it easier for the mind to disengage from external concerns. It is the difference between looking at a photograph of a forest and standing inside one.

In practice, spatial positioning of ambient sounds can be used intentionally. Rain falling from above creates a sense of shelter and enclosure. Ocean waves sweeping from side to side create a sense of rhythmic movement. Forest sounds distributed around the listener create a sense of being immersed in nature.

The Sequencer: Automating Your Frequency Journey

The Day 7 session in the previous chapter demonstrated the power of moving through multiple frequency states in a single session. A sequencer automates this process by allowing you to define the waypoints while the system handles the transitions.

A sequencer controls base frequency changes over time (for example, starting at 528 Hz and gradually shifting to 174 Hz), binaural beat transitions (such as moving from 10 Hz Alpha to 6 Hz Theta to 2 Hz Delta), volume changes through gradual fade-ins and fade-outs, ambient sound activation and deactivation at specific times, and noise generator levels over the course of the session.

Several common sequencer patterns have proven effective. The Wind-Down pattern for sleep moves from Beta at 15 Hz through Alpha at 10 Hz and Theta at 6 Hz down to Delta at 2 Hz, taking 30 to 45 minutes with gentle transitions over 3 to 5 minutes between states. The Deep Dive pattern for meditation begins at Alpha (10 Hz), descends to Theta (6 Hz), holds Theta for 15 minutes, then returns to Alpha (10 Hz) over 25 to 35 minutes. The Productivity Cycle for work begins with a 3-minute Alpha warm-up at 10 Hz, followed by 25 minutes of Beta at 15 Hz, and closes with a 2-minute Alpha cooldown, totaling 30 minutes aligned with a Pomodoro block. The Creative Arc starts with Alpha at 10 Hz, descends to Theta at 5 Hz for 15 minutes of divergent thinking, transitions through Alpha, then rises to low Beta at 13 Hz for 15 minutes of convergent execution, totaling 35 to 40 minutes.

Natural Wave Modulation: The Golden Ratio Pattern

Beyond static frequencies and linear transitions, advanced sound design incorporates natural wave modulation, which introduces subtle, organic-feeling variations in frequency and amplitude that follow mathematical patterns found in nature, particularly the Golden Ratio (approximately 1.618).

Rather than a perfectly steady tone that can become monotonous, natural wave modulation creates breathing-like variations that feel organic and alive. This mirrors patterns found in natural sounds. Ocean waves do not arrive at perfectly regular intervals, and wind does not blow at a constant speed. These natural variations keep the brain engaged without creating distraction.

The effect is subtle but meaningful. Sessions with natural wave modulation tend to feel more immersive and less synthetic, an important quality for extended sessions where listener fatigue can become a factor.

Building Your Own Sessions: A Framework

With all these tools available, here is a framework for designing your own sessions. Start with your goal and ask yourself what state you want to reach. Choose your binaural beat frequency, which is the most important decision because it determines your target brainwave state. Select a base frequency, where Solfeggio frequencies are a reliable starting point, but any frequency in the audible range works. Add one ambient sound that matches the mood of your session. Optionally add noise: pink for sleep, white for focus, brown for calm. Set your duration, starting shorter than you think (10 to 15 minutes) and extending as you gain experience. For advanced sessions, define transitions by mapping out which frequencies and sounds play at which times. Then practice, observe, and refine. Your best sessions will be the ones tuned to your personal response patterns.

Sine's Creator gives you control over every parameter described in this chapter, from base frequency and binaural beat to ambient sound selection and positioning, noise generators, and the Sequencer for automated transitions. Build exactly the session you envision.

Chapter 8: Next Steps, Start Your Sound Journey

What You Now Know

Over the course of this guide, you have learned why your brain responds to sound through the Frequency Following Response, a measurable neurological phenomenon that allows external rhythmic stimuli to influence your brainwave patterns. You have explored the five brainwave ranges from Delta's deep sleep to Gamma's peak cognition, each corresponding to a distinct state of consciousness with practical applications. You have discovered the nine Solfeggio frequencies, from the grounding 174 Hz to the transcendent 963 Hz, with their historical significance and emerging research support. You understand how binaural beats work, how two slightly different tones create a neurological event that guides your brain toward a target frequency, supported by growing research on anxiety, sleep, focus, and more. You have your personal frequency protocols with specific, actionable settings for sleep, focus, calm, energy, meditation, and creativity. You completed (or are ready to complete) a structured 7-day practice that takes you from your first Alpha session to a fully sequenced multi-state journey. And you have learned advanced techniques including sound layering, spatial audio, sequencing, noise generators, and natural wave modulation for deeper, more customized experiences.

This is not theoretical knowledge. It is a practical toolkit. Every concept in this guide can be applied today, and the effects become more pronounced with consistent use.

The Difference Between Reading and Experiencing

There is a limit to what words on a page can convey about sound. You can understand how a binaural beat works intellectually without ever having felt your brainwaves shift

in response to one. You can read about the difference between Theta and Alpha without knowing what it feels like to transition between them.

The gap between understanding and experience is where the real value lives. And that gap closes only by putting on headphones and pressing play.

Experience Everything from This Guide in the Sine App

Sine was built to make everything in this guide not just possible but effortless.

The Real-Time Frequency Engine generates every frequency live at 44.1kHz sample rate. There are no pre-recorded audio files and no compression loss. The mathematical precision that makes binaural beats effective is preserved completely.

The Creator lets you set your base frequency anywhere from 20 Hz to 20,000 Hz and dial in your binaural beat from 0.5 Hz to 40 Hz. Add a bass layer with octave shifting. Layer in any combination of 44 ambient sounds, all tuned to 432 Hz. Add white, pink, or brown noise with adjustable filters. Position sounds in 3D space. Everything described in this guide, available in a single interface.

The Sequencer automates parameter changes over time. Create the kind of multi-state frequency journeys described in the Day 7 Challenge and the Advanced Techniques chapter. Set waypoints for frequency, volume, and sound activation, and let the engine handle smooth transitions between them.

The AI Creator removes every barrier for newcomers. Not sure where to start? Describe your mood or goal in plain language, and the AI will generate a personalized frequency session for you. It understands the principles in this guide and translates your intention into precise audio settings.

Bio-Resonance Tracking connects your Apple Watch or iPhone health data to show how your body responds to different frequencies. Monitor heart rate and heart rate variability (HRV) during sessions to discover which frequency combinations produce the strongest physiological effects for you personally.

The Community lets you discover sessions created by other practitioners, share your own, and find new combinations you would never have thought of. The collective intelligence of thousands of frequency explorers, accessible in one place.

The Streak System builds a daily practice and earns rewards. Consistency is the single most important factor in frequency-based wellness, and the streak system provides the structure and motivation to maintain it.

Your 7-Day Free Trial

Everything in the Sine app is available free for 7 days. No limitations, no locked features, full access to the Creator, Sequencer, AI, Bio-Resonance tracking, and Community.

After the trial, Sine Premium is 12.95 EUR/month or 98.99 EUR/year (saving 36%). But for the first week, the only investment is your time and attention.

Download Sine from the App Store: <https://apps.apple.com/app/sine-immersive-soundscapes/id6758575757>

One Final Thought

The frequencies in this guide have been shaping human consciousness for millennia, in temple chants, in drum circles, in the sound of rain on a roof. What is new is not the frequencies themselves but our ability to use them with precision and intention.

You now have the map. The tools exist. The only step left is to close your eyes, put on headphones, and listen.

Your brain already knows what to do.

*Thank you for reading *The Frequency Guide*. For questions, feedback, or to share your experience, find us on Instagram at [sine.app](#) or visit [sine-app.com](#).*

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