

Superintendent Update: September 7, 2018

Quote for the week: “The temple of our purest thoughts is—silence!” —Sarah Josepha Hale

We live in a loud and distracting world, where silence is increasingly difficult to come by — and that may be negatively affecting our health.

In fact, a 2011 World Health Organization report called noise pollution a “modern plague,” concluding that “there is overwhelming evidence that exposure to environmental noise has adverse effects on the health of the population.”

We’re constantly filling our ears with music, TV and radio news, podcasts and, of course, the multitude of sounds that we create nonstop in our own heads. Think about it: How many moments each day do you spend in total silence? The answer is probably very few.

As our internal and external environments become louder and louder, more people are beginning to seek out silence, whether through a practice of sitting quietly for 10 minutes every morning or heading off to a 10-day silent retreat.

Inspired to go find some peace and quiet? Here are four science-backed ways that silence is good for your brain — and how making time for it can make you feel less stressed, more focused and more creative.

1. Silence relieves stress and tension.

Florence Nightingale, the 19th century British nurse and social activist, once wrote that “Unnecessary noise is the most cruel absence of care that can be inflicted on sick or well.” Nightingale argued that needless sounds could cause distress, sleep loss and alarm for recovering patients.

It turns out that noise pollution has been found to lead to high blood pressure and heart attacks, as well as impairing hearing and overall health. Loud noises raise stress levels by activating the brain’s amygdala and causing the release of the stress hormone cortisol, according to research.

An unpublished 2004 paper by environmental psychologist Dr. Craig Zimring suggests that higher noise levels in neonatal intensive care units led to elevated blood pressure, increased heart rates and disrupted patient sleep patterns.

Just as too much noise can cause stress and tension, research has found that silence has the opposite effect, releasing tension in the brain and body.

A 2006 study published in the journal *Heart* found two minutes of silence to be more relaxing than listening to “relaxing” music, based on changes in blood pressure and blood circulation in the brain.

Silence replenishes our mental resources

In our everyday lives, sensory input is being thrown at us from every angle. When we can finally get away from these sonic disruptions, our brains’ attention centers have the opportunity to restore themselves.

The ceaseless attentional demands of modern life put a significant burden on the prefrontal cortex of the brain, which is involved in high-order thinking, decision-making and problem-solving.

As a result, our attentional resources become drained. When those attention resources are depleted, we become distracted and mentally fatigued, and may struggle to focus, solve problems and come up with new ideas.

But according to attention restoration theory, the brain can restore its finite cognitive resources when we’re in environments with lower levels of sensory input than usual. In silence — for instance, the quiet stillness you find when walking alone in nature — the brain can let down its sensory guard, so to speak.

3. In silence, we can tap into the brain’s default mode network.

The default mode network of the brain is activated when we engage in what scientists refer to as “self-generated cognition,” such as daydreaming, meditating, fantasizing about the future or just letting our minds wander.

When the brain is idle and disengaged from external stimuli, we can finally tap into our inner stream of thoughts, emotions, memories and ideas. Engaging this network helps us to make meaning out of our experiences, empathize with others, be more creative and reflect on our own mental and emotional states.

In order to do this, it’s necessary to break away from the distractions that keep us lingering on the shallow surfaces of the mind. Silence is one way of getting there.

Default mode activity helps us think deeply and creatively. As Herman Melville once wrote, “All profound things and emotions of things are preceded and attended by silence.”

4. Getting quiet can regenerate brain cells.

Silence can quite literally grow the brain.

A 2013 study on mice, published in the journal *Brain, Structure, and Function*, involved comparing the effects of ambient noise, white noise, pup calls and silence on the rodents' brains. Although the researchers intended to use silence as a control in the study, they found that two hours of silence daily led to the development of new cells in the hippocampus, a key brain region associated with learning, memory and emotion. While preliminary, the findings suggested that silence could be therapeutic for conditions like depression and Alzheimer's, which are associated with decreased rates of neuron regeneration in the hippocampus.

I borrowed most of this article to fit the quote for the week and I definitely identify with the need for silence. Quiet morning coffee on the back porch or sitting in the dark, looking to the sky in silence are two of my favorite activities! **If you have read this, share with me some of your most enjoyable periods of silence.** I feel so very fortunate to call MPV my work home and look forward to the rural, peaceful setting each day. I would not trade this for any urban setting which is anything but silent.

More Quotes concerning silence:

Keep thou the door of my lips.

Bible.

Silence is a true friend who never betrays.

Confucius.

Give thy thoughts no tongue.

Shakespeare.

Silence is the sanctuary of prudence.

Balthasar Gracian.

Silence is more eloquent than words.

Carlyle.

Silence! the pride of reason.

Holmes.

Great souls suffer in silence.

Schiller.

Speech is great, but silence is greater.

Carlyle.

Silence is the mother of truth.

Earl of Beaconsfield.

Silence more musical than any song.

Christina G. Rossetti.

Silence in times of suffering is the best.

Dryden.

Silence never yet betrayed any one!

Rivarol.

Other news for the week:

Pleasant View Jr. Hornets gained a volleyball victory over Decatur! Way to go Hornets!

Photo Below:

Bobby Brown learning to work a tiller for Mrs. Sawrie (below).





Thank you Mr. Treat for having such a “Big Heart!” You have been selected for the Big Heart Award. The students love you and you made it fun when we helped you and the kids sing “we are the YellowJackets, mighty, mighty YellowJackets!” We are so happy you are a YellowJacket!

MPV is also very fortunate to have Mrs. Battles (photo below). Mrs. Battles has been selected for the Teacher’s Heart Award. Mrs. Battles loves her children unconditionally and by the way, she teachers signing to students as they wait to get on the bus. This is just another example of a “Teacher’s Heart!”





Grandparents Day was a huge success at Marvin!

