

Orchestra Students' Version of: (Chapter 3)

*Every Brain Needs Music: The Neuroscience of Making and Listening to Music* by Larry S. Sherman & Dennis Plies

A teacher plays a huge role in motivation, and how a student views learning. To adapt and know your student helps produce success. **Gabriel, Grade 12**

Learning to play music can help you open pathways in your brain and make you think more critically. **Mac, Grade 9**

Students need 3 things to learn: Motivation, Learning style, and patience. If one is lacking, it takes the rest down with it. **Zach, Grade 10**

Positive teachers give a positive mindset towards music. This fosters a passion for playing and learning. This is why I have kept playing while my friends have quit. **Ben, Grade 11**

The best music teachers have personal connections with the students, and understand human nature and their needs and wants. **Julia, Grade 10**

Sour or Sweet? Mean teachers can discourage passion and practice. A poor student-teacher relationship sours the experience. On the other hand, a positive relationship with the teacher will promote happiness, fun, and passion. **Chris, Grade 12**

One student felt his mind and habits change after learning piano at the age of 60. Grit depends of passion, even genetics goes into grit. **Chloe, Grade 10**

Playing something nice can be rewarding so music can be very important. **Audra, Grade 7**

A sport is like playing an instrument – you have to practice. **Jose, Grade 9**

Instruments require good control of hands, fingers, and even feet (if applicable). Motivation and effort are key to learn anything. An important part of learning is seeing progress. Adults (and little kids) tend to be impatient and expect immediate results, a way to solve this is to teach them to “settle in”. **Chris, Grade 12**

The complicated movements we make during musical performance fire neurons throughout the brain. To improve, we need motivation, and more importantly, a healthy learning environment. **Gabriel, Grade 12**

The act of learning a new instrument requires your entire body to be used; no matter the instrument you're learning. Another fact about learning a new instrument: it requires a large amount of motivation and dedication. **Veronica, Grade 9**

Playing an instrument requires many coordinating functions in the brain. **Vivian, Grade 9**

Connecting the movement of the body with the sounds that come from it gives a sense of cause and effect. It does not matter your age, you can learn how to play/perform music at any time. You cannot give up. **Vivian, Grade 9**

Motivation and effort are important to learning, but humans only have motivation when they see progress. Therefore, learning strategies are important too. **Sophia, Grade 9**

Motivation, determination, and guidance are keys to success. I can practice for hours, but if I do not get input from others, I struggle to improve on the little things. **Ben, Grade 11**

Music enhances the mind of those who practice it. It creates new links to other parts of the brain. Learning music rewards those who play – it benefits the brain. However, music is very difficult, you need lots of grit, which can sometimes be more important to success. **Gabriel, Grade 12**

Patience during practice can help you do something better but children get too excited and rush through their pieces. Finishing practice with your favorite pieces can be rewarding. **Xyshon, Grade 7**

Learning music tests patience, in a way that is similar to athletes. Skills are built up over time, and can bring permanent change to your personality. **Jose, Grade 9**

At any age, you can learn and master an instrument. You just need effort and focus. Although adults tend to get impatient. Patience is key when learning. **Ben, Grade 11**

Although the brain ages over time, if challenged enough, the brain will still get stronger, learning and improving. **Gabriel, Grade 12**

When the body is relaxed, the mind can think, like cause and effect. **Ayla, Grade 10**

Learning music takes years to master. Learning how to play an instrument will change your life and your brain. Consistent musical experience enhances your analytical thinking skills and encourages you to challenge yourself and your critical thinking skills. **Chris, Grade 12**

Patience is a trait that you will learn from playing music. **Siana, Grade 6**

Adults want to talk about their weekends at lessons, but kids want to play more than talk. **Eddie, Grade 6**

Practicing involves slowly working on the pieces. **Regina, Grade 6**

Grit is very important because when you like to do something, you would do it even when it gets hard. **Audra, Grade 7**

People should make long-term goals and use grit to achieve them. **Kelsey, Grade 7**

Grit is determined by your personality. Sometimes when it seems hard and you want to give up, you don't give up. **Eddie, Grade 6**

People who don't give up easily are the ones who keep their long-term goals. **Regina, Grade 6**

Some people give up with music and others don't because they focus and persevere. **Chloe, Grade 6**

Music practice is a long windy road. Grit can come from your parents. Grit is a mix of passion and perseverance. **Felipe, Grade 6**

You can inherit grit from your genes. If you have grit, you can do anything. If you have curiosity, you will have better learning outcomes. **Miranda, Grade 6**

Grit may be partly inherited as a trait, kind of like your personality. Your environment and genetic traits may be better at working towards long-term goals. You can learn perseverance if you did not adopt it earlier in life. **Chris, Grade 12**

Kids tend to have more patience than adults when it comes to learning music; if they aren't pressured by parents. (I can't relate, LOL). **Siana, Grade 6**

Kids may have more motivation in working with music, because adults are used to "instant gratification". Children are more excited just to play, rather than study or practice. **Kaylee, Grade 10**

Most people are excited to go home and practice a certain part. It has helped me gain more focus. *Zelda, Grade 6*

Students hate practicing but they love playing. *Kellen, Grade 6*

Small successes can reach high and greater goals. *Dante, Grade 9*

Perseverance is genetic and environmental. *Annabella, Grade 10*

Smaller successes lead to bigger goals. *Mylee, Grade 10*

Playing music turns you into a thinker/learner. Adults struggle to learn new things because of a lack of patience. Humans need to see progress to stay motivated. *Anna, Grade 12*

“Learn” sometimes leads to “Like”. *Miranda, Grade 6*

If you are used to everything being easy, learning to play music can be challenging and have a different effect on different people. *Claire, Grade 9*

Ask questions about music. For example, “How does the speed of my bow affect my playing?” *Siana, Grade 6*

Learning to play an instrument requires control. There’s a cause and effect in what you learn. *Eli, Grade 12*

My benefit of playing string bass is that I have a better understanding of the deeper meaning of music. *Kelsey, Grade 7*

Playing music is a good thing for your health. *Felipe, Grade 6*

Our brain has a process for liking and wanting and it’s like dopamine where you like it and want more of it. *Xyshon, Grade 7*

Music can release a neurotransmitter that makes you want more music (kind of like dopamine). *Adan, Grade 8*

Liking chocolate is like music because when you eat chocolate, you want more, so if you listen to a song, you want to hear it again. *Felipe, Grade 6*

If I took the survey, I would say I like music for the way it sounds. *Archer, Grade 6*

Playing music gives you a thirst for more. It is addicting. You crave the satisfaction of mastering a piece. *Ben, Grade 11*

Rewarding people after practice (i.e. playing a game you like or a piece) will actively help you practice more often and probably help with motivation. *Zac, Grade 10*

Music can benefit people by helping them express themselves. *Regina, Grade 6*

Learning music helped me look at the world differently, and listen to music differently (really hearing the background melodies and pitches). *Siana, Grade 6*

Shared emotional feelings can affect others around you in different ways. *Bonita, Grade 6*

Emotions affect you when you play music. For example, if you’re anxious, your shaky hands can mess up your piano playing (music). *Siana, Grade 6*

Visuals are needed for practicing music. The eyes send signals to the thalamus to process sensory information. Our “higher” brains process visual information of “What” and “Where” (there is a “what” and “where” pathway for reading music). *Mac, Grade 9*

Sight reading takes the most concentration because you don't have much time to process things. However, repetition can still lead to improvement. **Kaylee, Grade 10**

Motivation, determination, concentration, and guidance are needed for learning. When concentrating, we pay less attention to distractions and have tenacity (stick to it). **Jamee, Grade 6**

Concentration allows us to block out distractions and perform at a higher level. One thing that needs a lot of concentration is sight reading. Playing through a piece, in-tempo, without stopping, lets you absorb more and improve your ability to play the piece. **Chris, Grade 12**

Concentration is another key to successful learning, when concentrating, you use more focus and show a stronger desire for what you're doing. Sight reading requires a humongous amount of concentration. **Olevia, Grade 7**

Concentration can help with practice and sight reading. **Mac, Grade 9**

Music holds poetic space, meaning it can be hard to understand sometimes but once you let it sit, you can begin to understand what the poet is saying. **Vivian, Grade 9**

It's better to focus if you're alone and have no distractions. This refers to music and the outside world. You should ask questions to know how different things affect the outcome. For example, "Does the speed of my bow affect my music?" **Siana, Grade 6**

Collaboration helps to learn a new musical instrument. Learning to play an instrument is one of the most difficult things for the human brain. **Chloe, Grade 6**

To be successful in learning, you need concentration, motivation, and determination; you need someone to guide you. **Regina, Grade 6**

Until you master one skill on its own, it will be nearly impossible to use multiple skills at once. **Inara, Grade 7**

When people concentrate on the music, they engage more with it for better playing. When you sight read, your brain concentrates the most to get the most out of your playing. Without this and other aspects of music, you can only play noise, not music. **Viviana, Grade 7**

Maturity, and maximum concentration with no distractions are what it takes to be a successful learner. **Katy, Grade 6**

If you are listening to music while drawing for fun, you'll be more concentrated on the music. But if you are listening to music while drawing for a contest, you don't really listen at all. **Rose, Grade 6**

Learning music helps us feel a sense of accomplishment. **Jamee, Grade 6**