



DISCOVERING THE HARMONY BETWEEN PIANO, SCIENCE, TECHNOLOGY, ENGINEERING AND MATH

Day 1: Vibrations

- Learn to play a song “by ear”
- Explore high & low frequencies
- Play a song in high & low registers
- Understand how vibrations create sound through dancing salt experiment
- Learn about vocal cords & ear drums
- Experience a digital oscillator

Day 2: Patterns & Dissonance

- Experience dissonance & harmonious repertoire
- Explore the concept of density & polarity
- Experiment with centripetal force & friction
- Identify patterns in music & science
- Create a live water cycle
- Math sequences
- Playing “Uptown Funk” on the piano
- Game & Worksheet

Day 3: Bending

- Learn the 12 bars blues pattern & the blues scale
- Understand the concept of bending sound
- Experiment with refraction (bending light)
- Explore bending the notes of a known melody