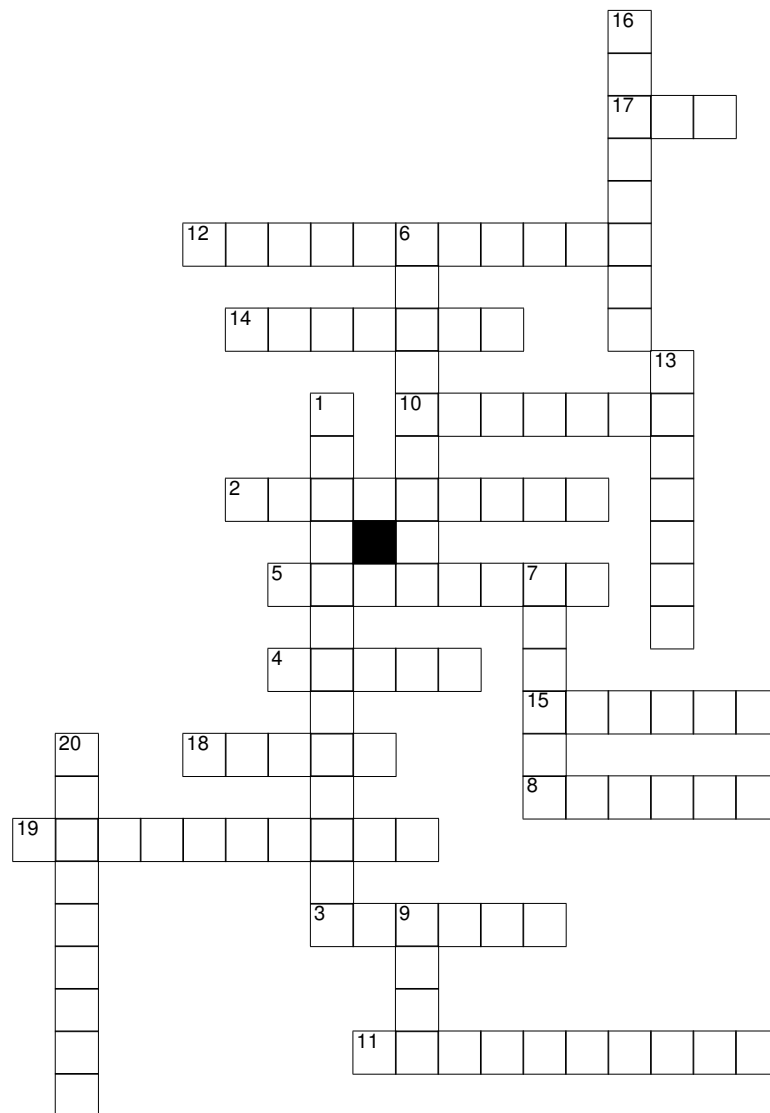


## An acoustical crossword puzzle: WiSTEM STEM in Art & Sound Day Camp



**Across** 2 Height of a wave 3 Name of the physicist after which  $F = ma$  is named 4 Name of the physicist after which  $F = -kx$  is named 5 Commonly used acoustic field variable 8 Organization of individual musical notes in succession 10 Absence of sound 11 Bending of waves upon entering a different medium 12 Spreading and interference of waves in space 14 Overlaying of two or more musical pitches 15 Quality of a sound based on its harmonic content 17 Arrow of sound that points in the direction of propagation 18 Art of sounds 19 Bouncing of waves off of surfaces **Down** 1 Principle that states that waves can be added together 6 Science of sound 7 Organization of musical notes in time 9 Physical phenomenon described by the function  $f(x - ct)$  13 Unit that quantifies the loudness of sound 16 Tone whose frequency is an integer multiple of a fundamental frequency 20 Number of cycles per unit time