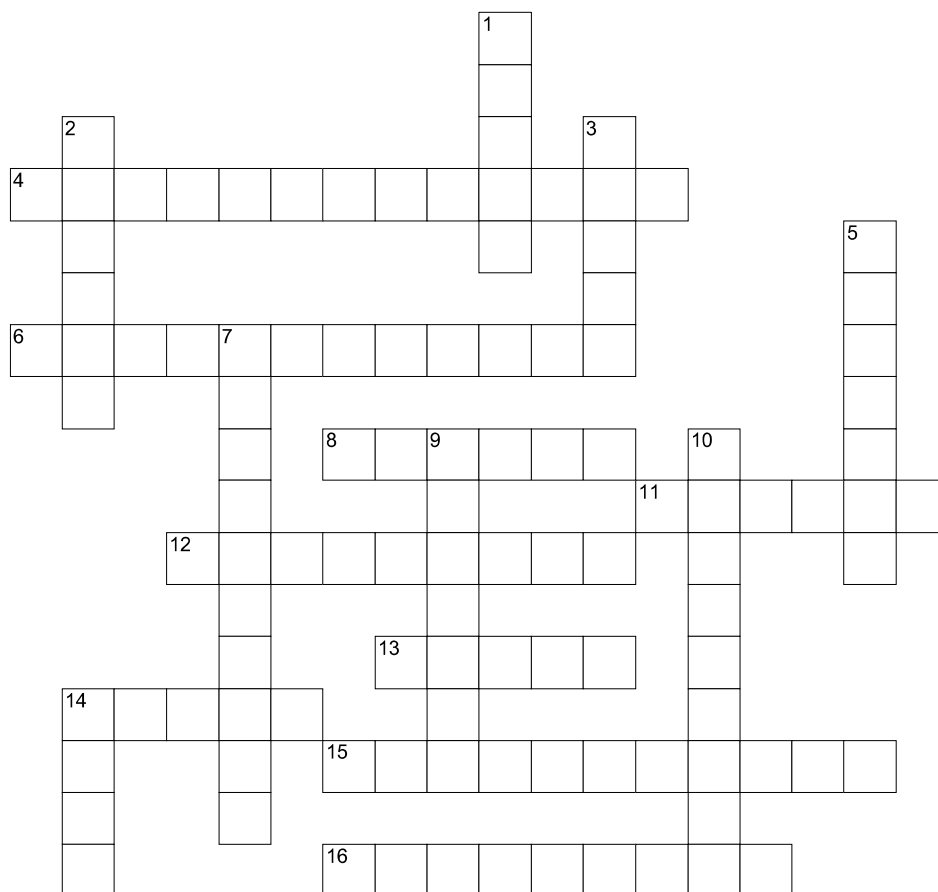


## Review - Unit 12



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### Across

- 4 multiple echoes  
 6 "dead spots" in an auditorium are the results of destructive -  
 8 twice the frequency of a musical note  
 11 The pitch of a wind instrument depends on the \_\_\_\_ of the air column  
 12 the fundamental mode plus overtones  
 13 The frequency of the \_\_\_\_ overtone of a 100 Hz note is 600 Hz.  
 14 mixture of sound frequencies with a pattern  
 15 The \_\_\_\_ mode determines the pitch of a musical sound  
 16 whole number multiples of the fundamental mode

### Down

- 1 pulsing sound as the result of interference of sound waves of slightly different frequencies  
 2 The first overtone of a note is the \_\_\_\_ harmonic  
 3 random mixture of many sound frequencies  
 5 Sound \_\_\_\_ depends on the number and relative intensity of harmonics  
 7 the bending downward of sound waves as they move into a layer of cool air is an example of -  
 9 Decreasing the \_\_\_\_ of a vibrating string lowers the pitch.  
 10 When a tuning fork matches the frequency of piano string, \_\_\_\_ occurs.  
 14 The pitch of a percussion instrument depends on -