

Teacher Information Sheet

1st Grade: Vocalizations

Students will learn several bird songs (Acorn Woodpecker, House Finch, Allen's Hummingbird, Mourning Dove, California Quail). They will also learn why birds sing: to attract a mate, to establish territory, to make contact with the flock, to raise the alarm when predators come. Finally, students will learn how sound (pitch and volume over time) can be represented on the paper, looking at spectrograms.

Take home materials:

1. Worksheet: Bird Songs and other Sounds
2. Worksheet: Create a Sound Map
3. Parks for Birding
4. Local Birds brochure
5. Hand lens and feather

Lesson elements

1. Students watch BSP Vocalization Video: Introduction: <https://youtu.be/1QqRSWjkwzI>
2. Students watch BSP Vocalization Video: Seeing Sounds with Graphs: <https://youtu.be/5wS5cUyJma0> and then play the online video game Bird Song Hero: <https://academy.allaboutbirds.org/features/bird-song-hero/bird-song-hero-challenge>
3. Students watch BSP Vocalization Video: Why do Birds Sing?: <https://youtu.be/uvhouF-l2Fg>
4. Students watch BSP Vocalization Video: Learning some Local Birdsongs: <https://youtu.be/Ovnx-EBdJrQ> This guides them through the completion of worksheet: Bird Songs and other Sounds.
5. Bonus activities
 - a. Students go outside with a trusted adult and make a sound map with the Create a Sound Map worksheet.
 - b. Students can watch BSP Feathers Video: Using a Hand Lens: https://youtu.be/dhgurT_DuSI to learn about feathers and how to use a hand lens.
 - c. Students practice using the hand lens with the feather and then take it outside with a trusted adult and examine flowers, leaves, rocks and whatever they find.

