

# Bird Flight Patterns and Music

Online Curriculum with Lessons, Activities, Games,  
Extra Musical Performances and Composer Interviews

## Full Concert Video

Table of Contents with Time Markers for each flight pattern segment

## Additional Music Performance Videos

Moth-like Flight Pattern with Brahms Waltz Op. 39 No. 6 for Two Pianos:

Listen as Music Director, Yaniv Dinur and Education Director, Terry Wolkowicz explore moth-like flight with a performance of a Brahms waltz for 4 hands.

*The Nightingale Concerto 7th movement* with introduction from composer, Jamie Allen:  
Recorder Soloist, Heloise Degrugillier performs the 7th moment of Jamie Allen's *Nightingale Concerto* with the NBSO

Explore the soprano, alto, tenor and bass recorder in this video from *Nightingale Concerto* composer, Jamie Allen

## Composer Interviews

Jamie Allen introduces the 2nd and 4th movement of the *Nightingale Concerto*

## Listening Maps and Musical Timbre Lesson

Print out the listening maps for the *Nightingale Concerto* and follow along to see how various instruments combine and rhythmic motion is varied throughout each movement.

Create your own listening map that shows the sequence of flaps and glides in Strauss' *Acceleration Waltz*

In a lesson on musical timbre, children learn to distinguish, both physically and sonically, between the different instruments heard in the concert program.

## Bird-Watching Observation Log

Students can download and customize their own bird observation log entitled "Guess What I Saw?" where they can journal their outdoor bird observations with specific descriptive writing, drawing and listening prompts.

## Murmuration Activities

Starling-on-a-Stick Assembly Tutorial:

Students learn how to construct the Starling-on-a-Stick using our one-page template printout, a pencil and tape

Murmuration Classroom Activity:

Students explore the science behind starling murmurations using their Starling-on-a-Stick in this interactive classroom lesson

Follow the Flock Conducting Activities in 3/4 and 4/4 meter:

Using the Starling-on-a-Stick, students can learn to conduct to Beethoven and Pachelbel simply by following the flock on the video screen

### **Play-Along Melodies**

Play-Along Flap and Glide Melodies for Recorder:

Students can learn to perform flap and glide melodies using graphic notation, standard music notation and a bird in flight

Play-Along Melody from the *Nightingale Concerto 2nd and 7th Movement* accompanied by the NBSO Education Trio:

Students can perform melodies from Jamie Allen's 2nd and 7th movement while being accompanied by our NBSO musicians

### **Direct Flight Video Lesson and Activities**

Direct Flight Video segment with musical performance by the NBSO Education Trio:

In this fun video, the NBSO Education Trio performs a piece from Gilbert and Sullivan's *Pirates of Penzance* to demonstrate the continuous flapping in direct flight. How fast can they flap?

Watch and find out!

### **Static Soaring Activities**

Thermal Current Experiment Video Tutorial:

Students can explore the science behind static soaring and rising thermal currents in this easy and fun experiment

Listen as we explore Chopin's Prelude Op. 28 No. 7 to hear how his music moves in the static soaring bird flight pattern motion. Students can then compose a static soaring melody on our online music composition program, Compose-it.

### **Flap and Glide Activities**

Compose Your Own Flap and Glide Flight Pattern Melodies Video Game:

Drag and drop flaps and glides onto the musical graph and then hear your melody with a bird flying along

### **Undulating Flight Activities**

Skylark Acrostic Poem Lesson:

Explore information about the Eurasian Skylark and then create your own acrostic poem that uses each letter in the word skylark.

Compose Your Own Undulating Flight Pattern Activity:

Draw an undulating flight pattern and then plot the melody on the musical graph. Students can then use the NBSO's free online program Compose-it to hear their undulating melodies performed.

Students can print out a range board and learn to compose melodies that ascend in the same way as Vaughan Williams *The Lark Ascending*.

### **Bird Photography**

Richard Van Inwegen Bird Photography Examples and Tips for Students

Robert Feingold Bird Photography Examples and Tips for Students

### **Boston Museum Of Science**

Link to Boston Museum of Science Virtual Bird Flight Pattern Exhibit with NBSO Melodies  
Test your knowledge of various bird flight patterns in this interactive virtual exhibit.