

Into The Flutosphere

Q Primer On The Third Octave Of The Flute
With musical examples, embouchure tips, and pitch tendencies for each note

By Bryan J. Lackey
In fulfillment of the requirements for MUSI6285 (PA1)



Credits and special thanks

Works Cited

Hummel, Cate. "About the Third Octave". <u>Dr. Cate's Flute Tips</u>, December 14, 2014 (retrieved June 27, 2017). https://drcatesflutetips.wordpress.com/2014/12/14/about-the-third-octave/

Kerns, Sarah Vay. Personal interview. July 8, 2017

Wilson, Rick. "19th century Boehm flutes". Rick Wilson's Historical Flutes Page. Retrieved July 29, 2017.

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ABC logo http://www.bandworld.org/pdfs/ABCLogos.zip

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Fingering diagrams were generated by Fingering Diagram Builder by Bret Pimentel https://fingering.bretpimentel.com/

All musical examples are the creation of the author.

This book would not have been possible without the gracious help of Sarah Vay Kerns. Her patience with teaching flute to a brass player is legendary.

Table of Contents

Credits and special thanks	
About The Author	3
Introduction	
Let's talk about the third octave	
D	
D#/Eb	
E	
F	
F#/Gb	
G	
G#/Ab	
A	
A#/Bb	
B	
C	
Harmonic/Lip Slur Exercises	
Pattern 1: full range harmonics	
Pattern 2: octave harmonics	
Pattern 3: up and down	
Two Octave Scales	

About The Author

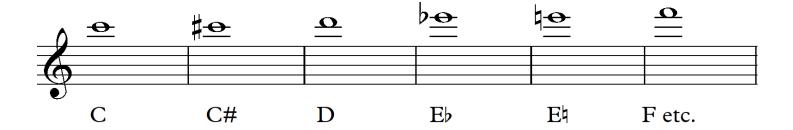
Bryan J. Lackey has been making music since he was nine years old. He started band, as many did, in fifth grade, holding a trumpet case that was almost as big as he was. A few years later he picked up trombone, and by his junior year of high school he had discovered the wonders of music teaching. In his journeys he has played with concert bands, orchestras, jazz groups, rock bands, and even a hiphop group. He has served as principal trumpet of the Yorba Linda Orchestra, featured soloist with the Pico Rivera City Jazz Band, and been a member of Failed To Victory, Skapeche Mode, and the Mellodramatix. He is also a founding member and primary songwriter of Goodluck Shark.

As a music educator he has taught all levels of band and orchestra, from elementary to high school, across southern California. He has been a clinician, coach, and guest conductor with many ensembles, and he is currently in his fourth year as the Director Of Instrumental Music at Morningside High School in Inglewood, California.



Introduction

Welcome! If you're reading this, you've probably already been playing flute for a year or two and may have started to see some notes with a *lot* of extra ledger lines. As you probably know, flute is the highest pitched instrument in the concert band and orchestra (other than its tiny cousin, the piccolo) and there are a lot of notes past C above the staff-



This book is intended to help you learn to play those notes in the easiest way possible. We'll start with a discussion of embouchure and air, and then for each note we'll talk about the fingerings and give some simple examples to get you used to each new note. As you learn each new note, try the overblow fingerings first, then the third octave fingerings, so you can hear and feel the differences between the two. Finally, the book has exercises in the back to help connect the lower and higher registers.

This book assumes that you have a basic familiarity with playing the flute and musical notation. If you have any trouble understanding any part of this book, please talk with your band director or private teacher.

Fingering conventions

Fingerings for each new note will be shown visually and referenced by number. The main six keys are 1-2-3 (left hand) and 4-5-6 (right hand), with special keys such as G#, Eb, etc. referred to by name. "Thumb" always means the back thumb/B natural thumb unless otherwise specified.

Let's talk about the third octave

Why The Third Octave Is The Way It Is

Theobald Boehm invented the modern flute, after almost two decades of development, in 1847. He created an instrument with a very logical, fully chromatic fingering system that could play all of the notes in any key with relative ease (Wilson). This system works great for the first two octaves, as the fingerings are either identical or almost identical from D below the staff to C above the staff. Look at your fingering chart and see-A is the same fingering in both octaves, D and E flat only change one finger, etc.

Until D above the staff. After that the fingerings can seem almost random from high D to high C! Except...they're not. The fingerings work because they combine the overtones for two different notes-D above the staff combines G and D, high E combines A and E, and so on (Hummel), and the open fingers *vent* the note, allowing it to speak more clearly. All of the fingerings in the high register take time and careful practice to master, but understanding this principle will help your development.

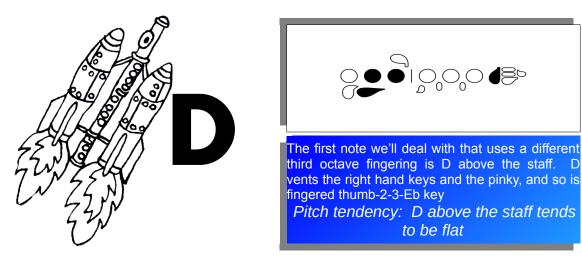
Embouchure In The Third Octave-aka "what to do with your face!"

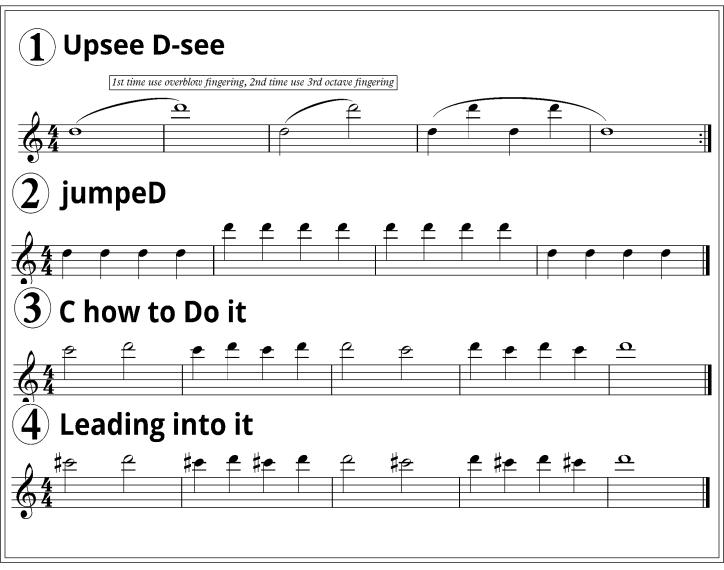
In the words of Sarah Kerns, when you play in the third octave "you want to do pretty much the opposite of what's intuitive". The instinct of most of people is to just tense up and blow as hard as possible to get the high notes out. Don't do that! Instead, make sure you have a good, solid, warm first octave, and use that as your basis for your high notes. Think about relaxing your way up to the high notes. Use the very center muscles (rather than the outer "smile" muscles) of your lips to make your aperture (your "air hole" in your lips) smaller, and then blow faster air. Think about changing the air direction for the higher notes, although which direction will work best varies quite a bit person to person and flute to flute. Use only as much effort as you need to get each note-not all you have!

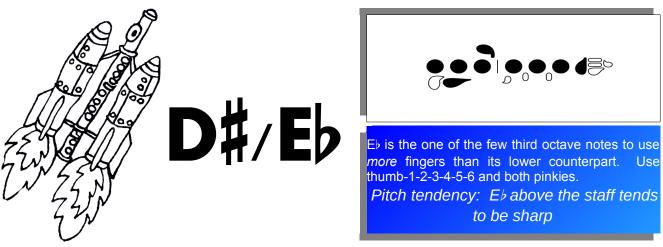
Exercises For The Third Octave

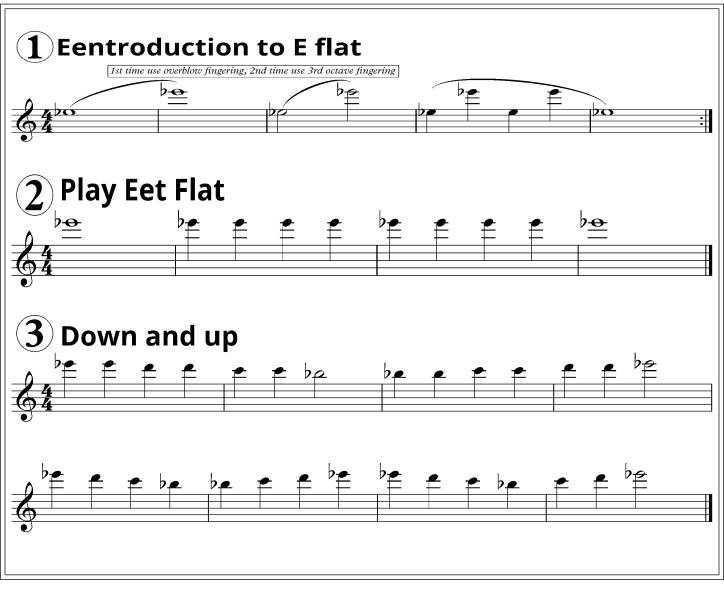
This book includes a combination of exercises to help you master the high notes on your instrument. Each note is introduced in sequence, and simple exercises are provided for each one so you can get used to playing and reading each note-those ledger lines can get confusing! In addition, there are also a variety of *harmonic exercises*, or *lip slurs*. These are exercises where you play multiple notes using the same fingering. We use these exercises to develop our tone, air control, and flexibility, and they are one of the best ways to develop your high register. Once you can play each third octave note with a harmonic or overblow fingering, try the standard fingering. Listen for and feel the difference in the way the note responds for each one. Do these types of exercises every day as part of your warmup, and your range will develop much faster.

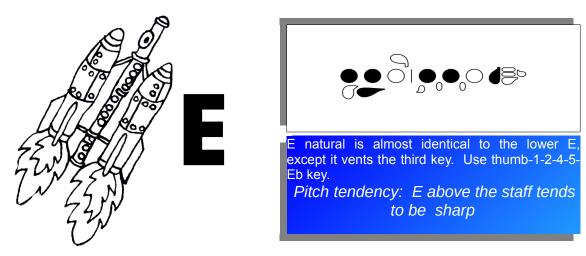
In this book the exercises for each note always begin with a harmonic exercise, and a collection of harmonic exercises are found on pages 18-22.

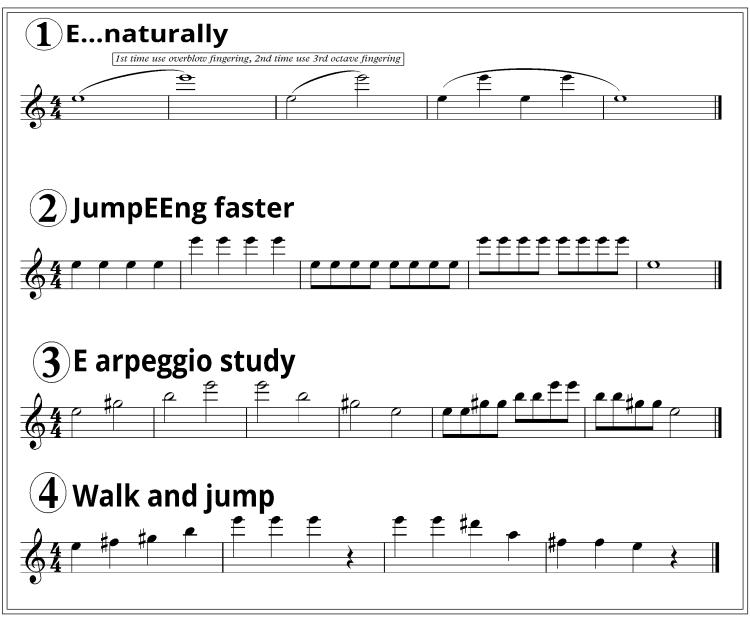


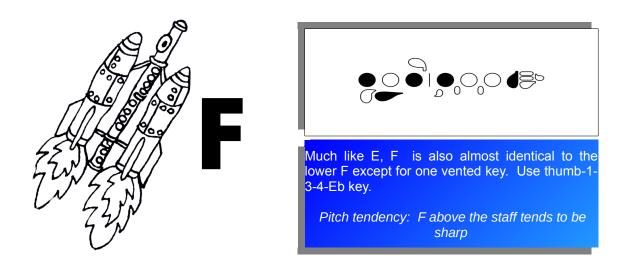


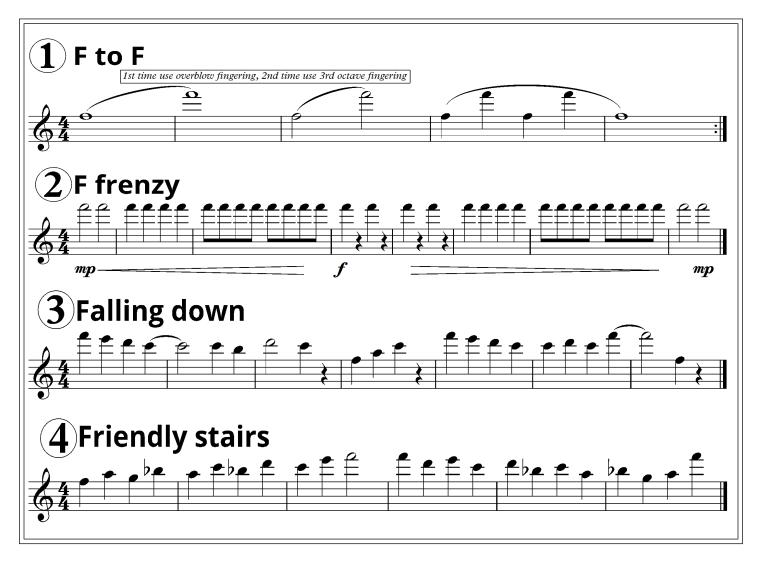


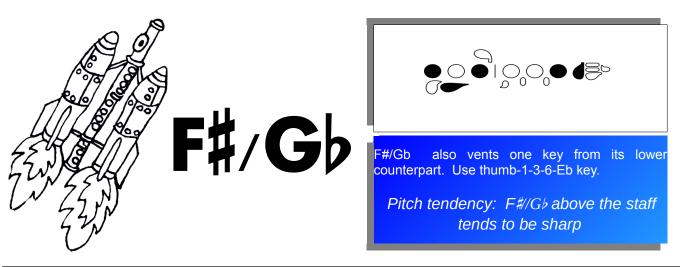


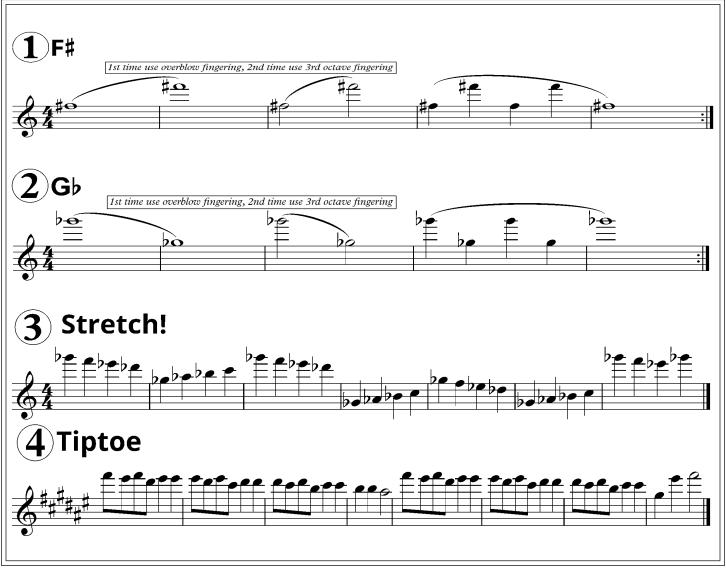


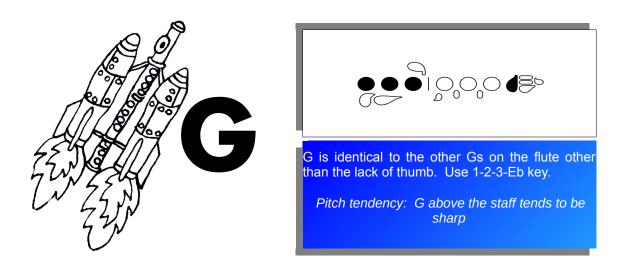


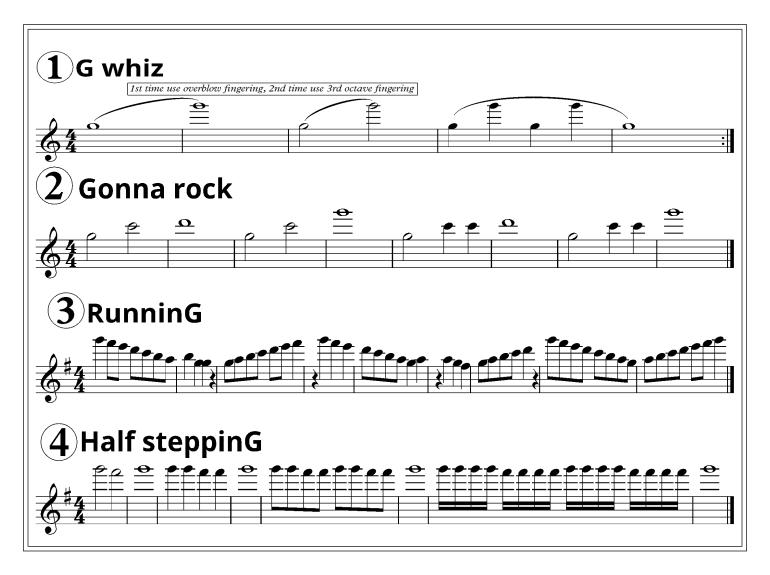


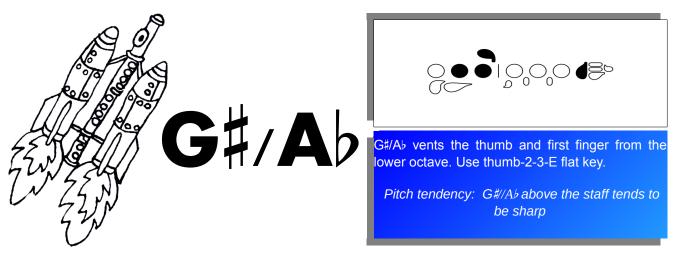


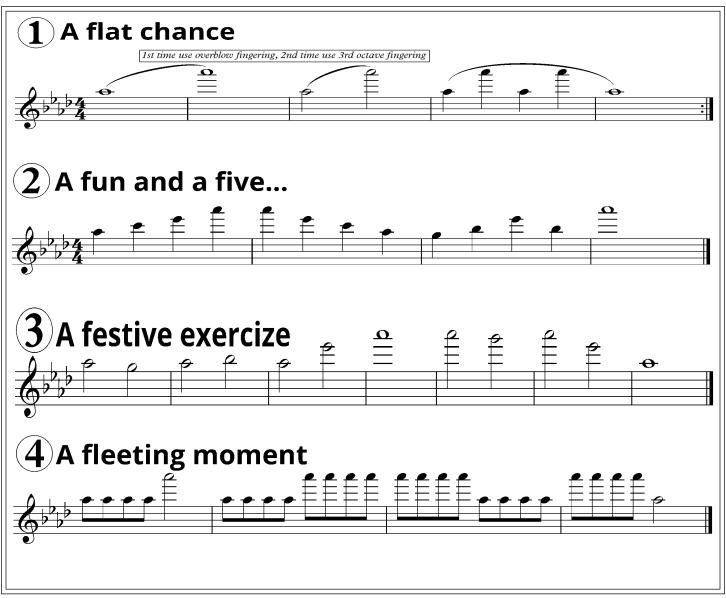


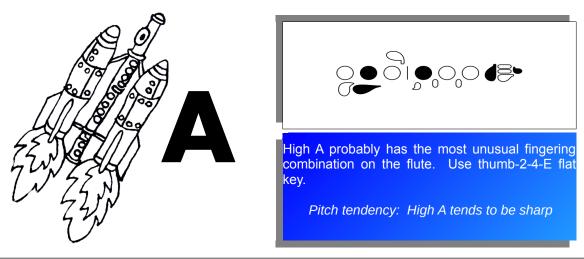


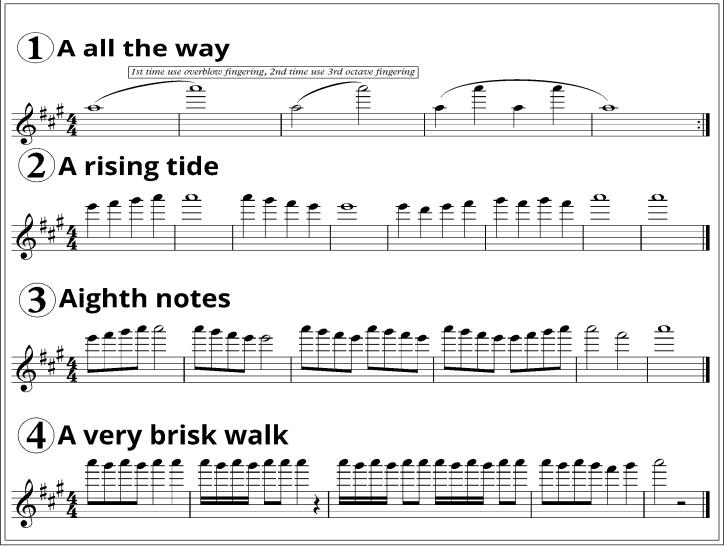


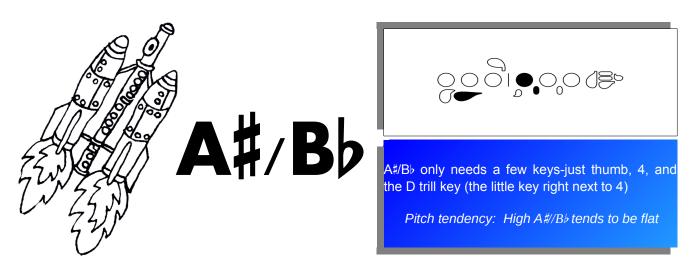


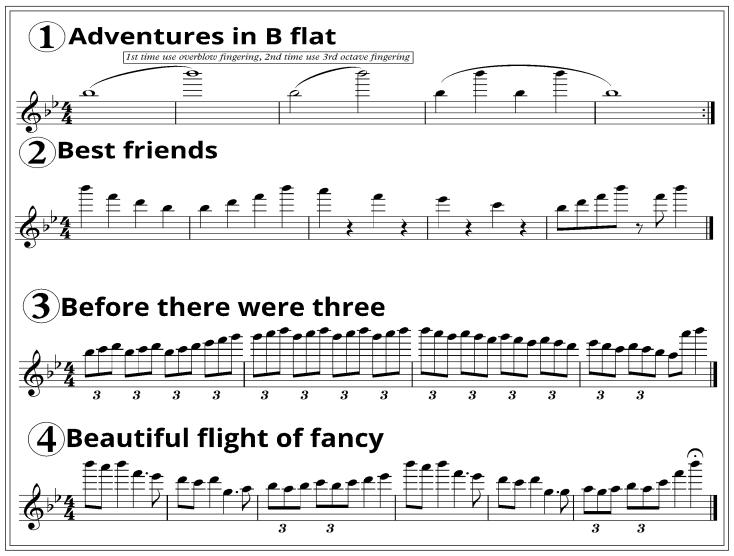


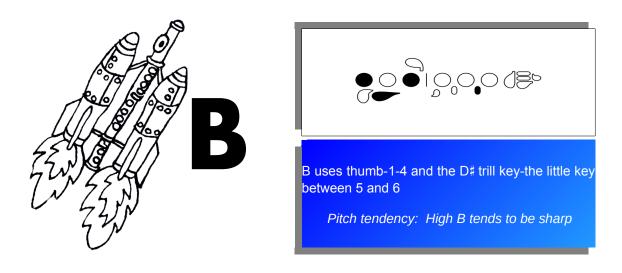


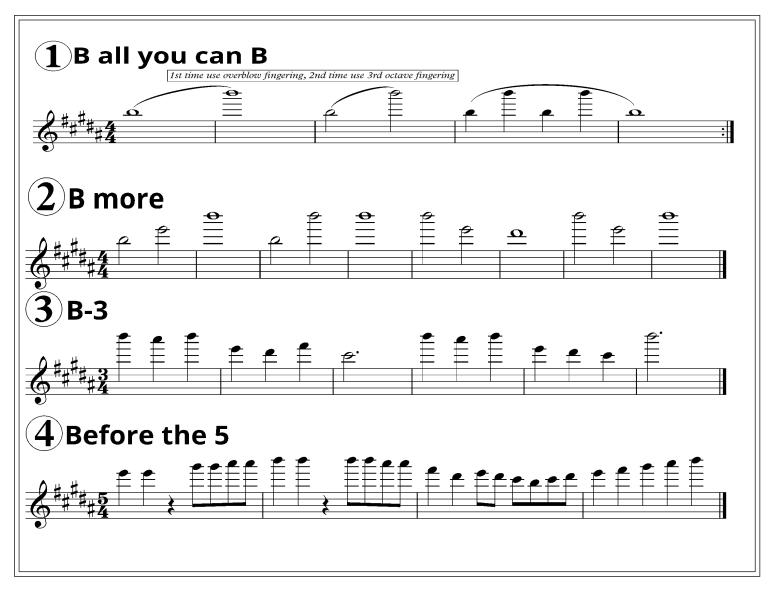


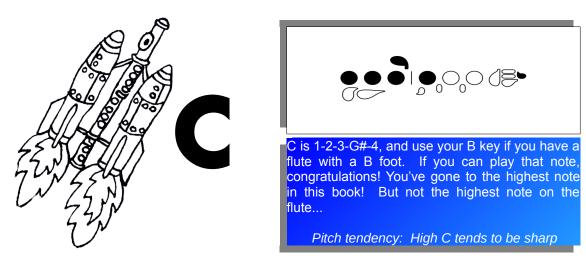


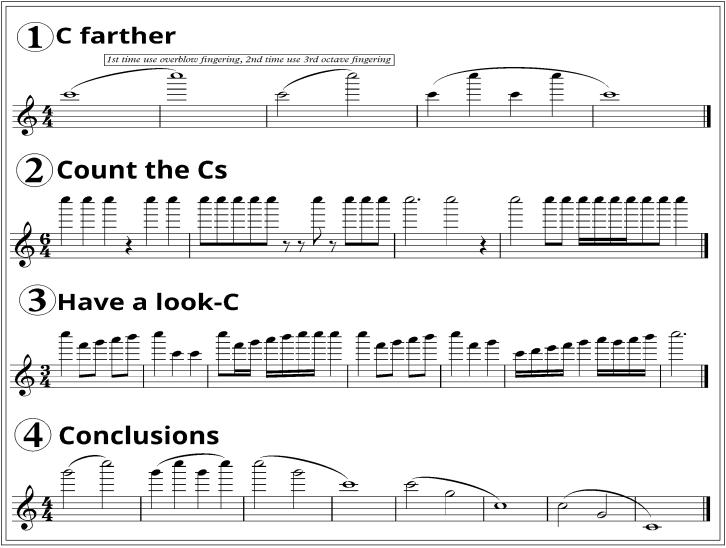










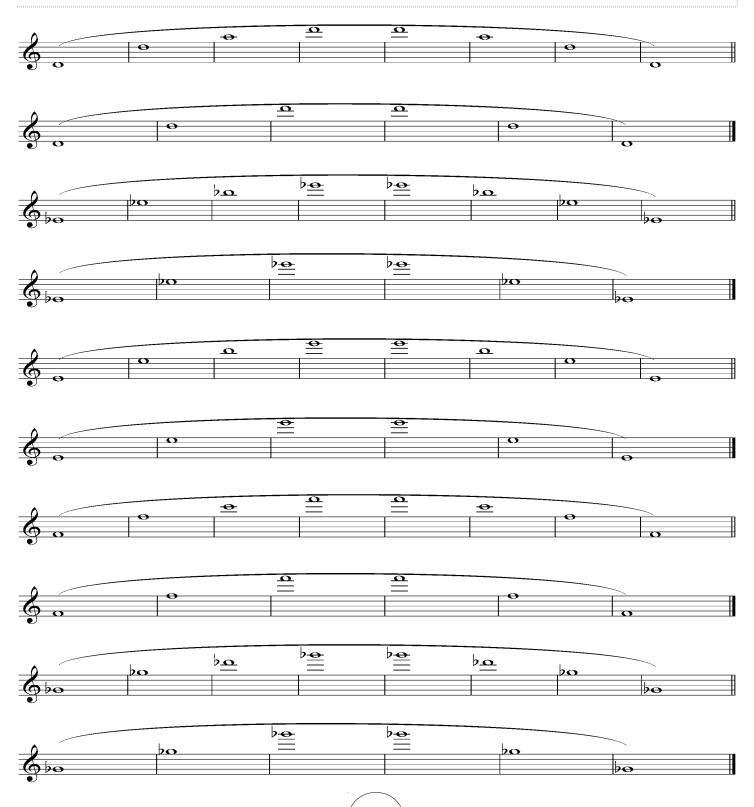


Harmonic/Lip Slur Exercises

The following pages contain several lip slur patterns that cover the whole range of the flute. As you begin to practice these exercises, always start slow and work on getting the most relaxed and full sound possible. Transition between each note as smoothly as you can, with the minimum amount of air and embouchure change.

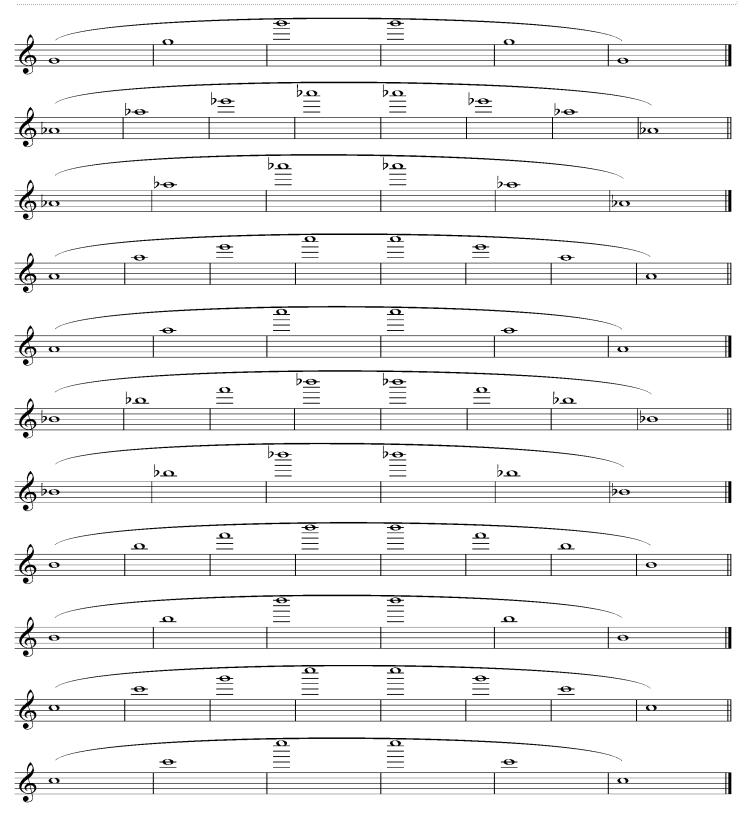
Do as much as you can of each pattern every day. If the higher notes don't come out right away, *that's ok.* High notes take time to develop, and are a direct result of having a good sound in the lower notes. Keep practicing and you'll get there!

Play each line twice through, first with only the fingering for the lowest note (for example, use T-1-2-3-4-5-6 for all the notes of the first line, then use the Pattern 1: full range harmonics standard fingerings the second time through. The second line of each group eliminates the middle harmonic to further increase your flexibility.

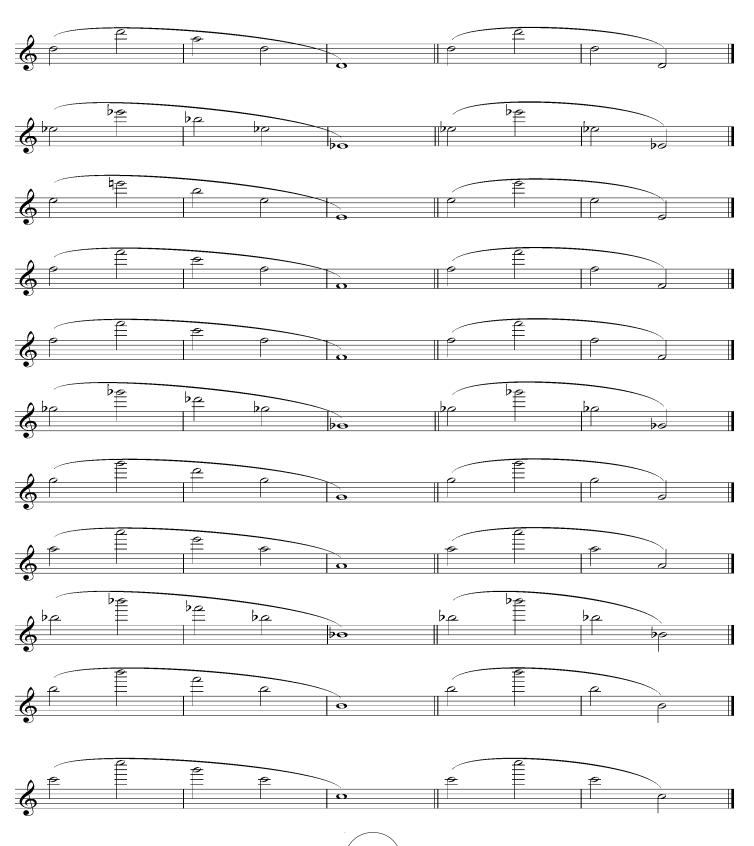


Pattern 2: octave harmonics

These are all of the introductory harmonic exercises used to introduce each note. Just as in the rest of the book, use the harmonic fingering the first time and the standard fingering the second time though.







Two Octave Scales

