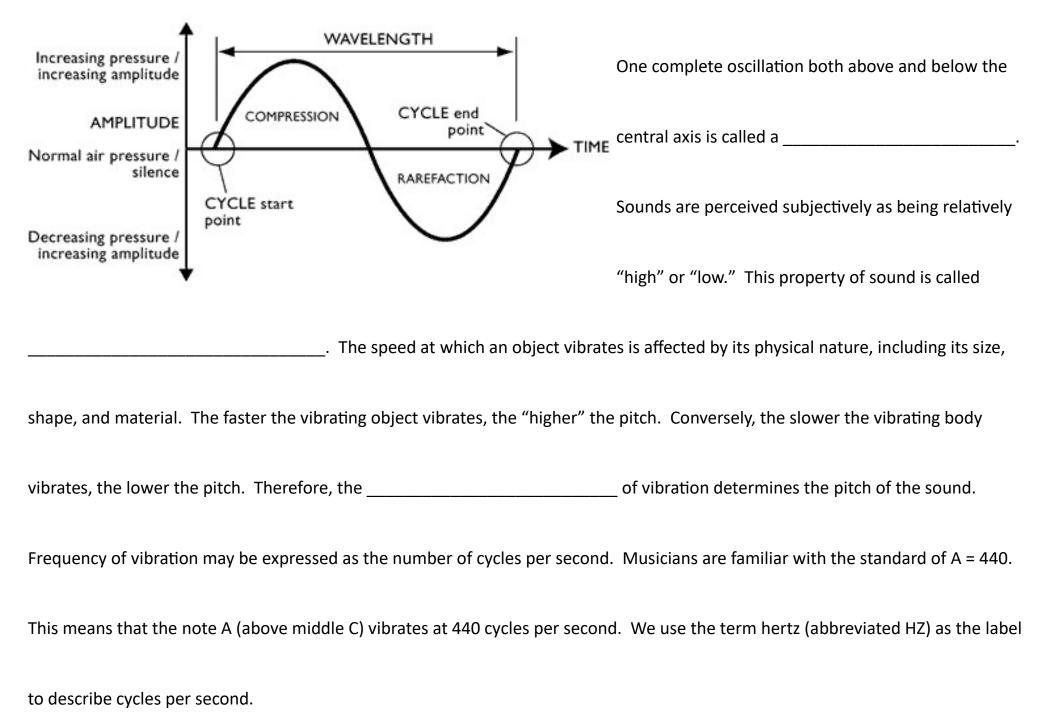


Music Theory Introduction

and and are the basic materials from which music is made. In music, time is organized
to patterns of Sound consists of several characteristics, each of which contributes in its own
ay to the music is the scientific study of sound. The source of sound is a
object. Any object that can be made to vibrate will produce sound. Vibrating objects that are
miliar to musicians include strings, wind, brass and percussion instruments. A vibrating object generates energy that is
ansmitted to the ear by vibrational disturbances called These
aves are transmitted as alternate compressions and rarefactions of the molecules in the atmosphere. Sound waves transmit
nergy from the vibrating object to the



	When the frequency or HZ of a pi		one will be an cy or HZ of a pitch is halved,
V V V V V V V V	the resulting tone will be an		_lower.
In addition to pitch, music makes use o	f various degrees of "loudness" or	"softness" of sound. This pro	operty of sound is called
	Intensity is determined by the	amount of energy transmitte	d from the sound source to
the ear and is measured by the		of the sound wave. Sound w	vaves can be compared to
waves on the surface of water. The gre	eater the agitation, the higher the	waves. Assuming no interfere	ence from absorbing or
reflecting surfaces, sound travels outw	ards in all directions from the sour	ce. The intensity, however, d	ecreases inversely as the
square of the distance. Ordinarily, the	closer one is to the sound source,	the	the sound
will be.			

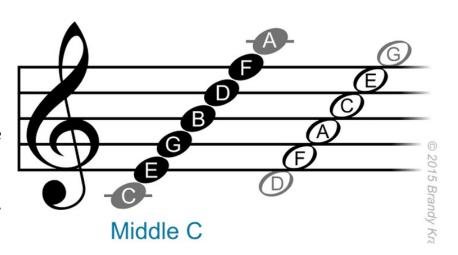
Tones produced by various sound sources have their own distinctive tone quality.	This property of sound is	s called
In addition to pitch and intensity, timb	ore is transmitted to the	ear by sound waves.
Sounds from different sources vary in quality because most sounds are not a single	e pitch, but consist of a c	omplex of pitches called
These pitches are the result of t	the sound source vibration	ng not only in its entire
length, but also in 1/2, 1/3, 1/4, etc. of its length. The result is a	TIMBRE	
complex sound wave that transmits all of the frequencies produced	Tuning fork	
by the source. The number, distribution, and relative intensity of	Flute	
the harmonics contained in a sound are chiefly responsible for its		V V V
timbre.	Voice	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Guitar	M.M.M.M.

Since time is one of the basic building blocks of mu	sic, the of sound is an important factor.
Duration is the property of sound that refers to the	"length" of tones. In music, the duration of sounds is a vital concern. Patterns
of duration create the element of music called	·
Music can be considered a type of	, and to a lot of people a foreign one at that.
t has its own alphabet and sentence structure and	set of rules that govern how to put it all together and "conjugate" the sounds.
Music has created a system of writing called	This allows us to organize and inform
people how to create sounds that are high and low	in patterns of different rhythms and durations, and in various intensities in a
	concise and readable manner. It has evolved over many thousands of years into
	a standardized system with
BULES	

Musical Notation

Five parallel horizontal lines with intervening spaces are used to notate the

pitch of tones. This device is called a ______



The written symbols which represent tones are called ________ . Tones can be heard, whereas notes can only

be seen. The first seven letters of the alphabet (A through G) are used to name the notes which are placed on the various lines and

spaces of the staff. Signs are placed at the left on the staff to identify a particular line. These signs are called ______



Although many different types of clefs have been used throughout the history of musical

notation, modern notation generally focuses on the G (treble) clef, F (bass) clef, and C (tenor/

alto) clef. The different clefs are used to make music easily readable dependent upon the range

of pitches being used to avoid the use of unnecessary ledger lines.

	The treble and bass clefs can be combined to create the
9 :	The grand staff is used for the notation of piano music and is useful for other purposes, since it is capable

of representing the full range of virtually all musical media. Create a grand staff by combining two staves (one using a treble clef and a second using a bass clef) joined by a vertical line and a brace at the left. A note placed on the first ledger line above the bass staff represents the same pitch as a note placed on the first ledger line below the treble staff. This note is called

______. It derives its name from the fact that it's located in the middle

of the grand staff.

In the beginning of music, times were simpler. There was no harmony, everyone sang or played a unison line of music. Notation was a breeze as there wasn't much to control. When a piece of music is totally unison in all ways, it's called homophonic. The only thing we needed to write was the distance between pitches, called an

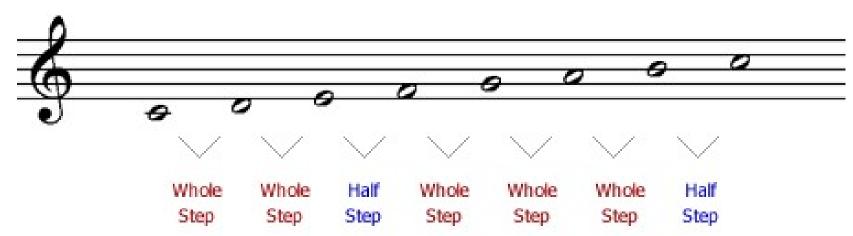


The smallest type of interval used in western tonal music is the ____

half step whole step

Two half-steps combine to make a whole-step. When you place notes alphabetically in

sequence on a staff, each note visually appears to be equidistant from the preceding or following note. In this way, a staff is deceptive. Take a look at your piano keyboard page. Half steps are found between the notes E and F and also between B and C. All other adjacent notes are a whole-step from one another. Yet, visually on the written staff, the intervals between all notes are the same size. A ______ is the movement from one pitch to the same pitch an octave away. For example, a C major scale would be written as follows (C, D, E, F, G, A, B, C): Notice the pattern of the intervals between each note in the scale.



A major scale is always made up of the same pattern of intervals: Whole, Whole, Half, Whole, Whole, Half. Knowing that, you can create a scale beginning on any pitch letter and figure out how to create a major scale. In order to get the correct intervals when starting on a pitch letter other than C, you may need to utilize _______.

Accidentals are signs/symbols that are attached to notes which alter their pitch. When writing an accidental, the symbol always

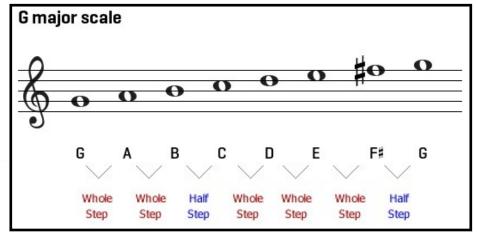
Accidental	Symbol	Function
Sharp	#	Raises note one half-step
Flat	b	Lowers note one half- step
Natural	4	Cancels an accidental
Double Sharp	×	Raises note one whole- step
Double Flat	bb	Lowers note one whole- step

goes just in front of the note being altered.



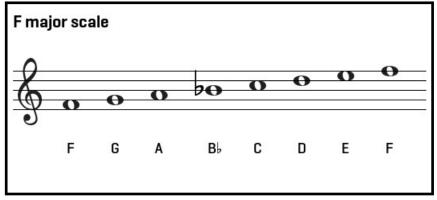
Accidentals are needed to keep the patterns of intervals correct when writing a major scale. For instance, look at the following

example of a G major scale:



Here's where music theory all starts to come together. You can see to write a G major scale, you need to employ one accidental; a sharp on the F. Therefore, we say that the key of G has one sharp, and that sharp is F.

Look at the following example of an F major scale. It uses one accidental, a flat on the B. I bet you can guess what the key of F has



in it's key! That's right, the key of F major has one flat.