# CADET MUSIC THEORY PROGRAM 

(ENGLISH)

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## NOTE

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1. This book has been designed as a study manual and exercise book for cadet musicians wishing to take a music qualification.
2. Training centres and units can use this document to distinguish the different standards of music theory for levels Basic, I, II, III, IV, and V.
3. This manual only contains the subject matter required by Technical Standards for C adet M usicians. The use of certain other publications on music theory would be complementary and could help with the learning process. For worthwhile suggestions consult reference manuals.
4. A cadet who wishes to reach a particular level is strongly encouraged to read the relevant chapter and practise the exercises it contains. H owever, reading alone cannot entirely replace actual practice or a period of music instruction.
C onsequently, you are advised to seek the assistance of someone experienced in this field.
5. Even though this publication has been specially designed for cadets, the instructor should use it as a reference guide to prepare music training and to keep track of his cadets' musical development.
6. You are advised to photocopy certain chapters and exercises in order to keep your own copy in good condition and thus be able to use it repeatedly over a long period.
7. If you have any questions concerning the content of this manual, consult $\mathrm{D} C \mathrm{dts} 3$.
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8. Take the time to read and understand the theoretical notions of the level.
9. Do all the exercises of each objective and take the time to understand any errors made by consulting the explications.
10. Always review the preceding levels because certain exam questions from these preceding levels may appear in your current level exam. This is most evident in levels 2 and up.
11. Consult other theory books (bibliography) to aquire more knowledge.
12. Ask for assistance from a qualified instructor if you have any questions.
13. Prepare for your exam a few months in advance in order to successfully achieve your level.

## Good Luck!



## The Staff

1. A note is a symbol used to represent a sound. The notes are placed on a series of five horizontal lines called a staff.

2. The number of lines on a staff should be counted from the bottom upwards. The first line is therefore called the inferior line and the fifth line is called the superior line. The spaces are also counted in the same manner.

3. It can therefore be stated that a staff is composed of five lines and four spaces. The position of each note determines the PITCH of each sound. The higher the note is placed on the staff, the higher the sound. The lower the note is placed on the staff, the lower the sound.
4. N otes that are written above or below the staff are separated, and distinguished by ledger lines.


## Treble and Bass Clef

5. A clef is a sign placed at the beginning of a staff to determine the names of the notes. This clef gives the name to the note placed on the same line. From this point on the staff, we can name all the notes above and below. M usic notes are named after the first seven letters of the alphabet, from A to G. Based on their position on the staff, they can represent the entire range of musical sound.
6. The clefs most commonly used are called the TREBLE and BASS clef.

7. As shown in the example above, the treble clef circles the line on which the note G is placed. The two dots of the bass clef surround the line on which the note F is placed.

Note: It is strongly suggested to learn the sequence of notes by memory in order to find any notes on the staff.
8. By using these two references, we can then locate the other notes on the staff found on the lines and in the spaces. Below you will find all the notes found on the lines and spaces.


ATTENTION: The notes can be remembered in many different fashions such as:
LINES of Treble Cef: Every, Good, Boy, Deserves, Fudge SPACES of Treble Clef: spell FACE

LINES of Bass Cef: Good, Boys, Deserve, Fudge, Always SPACES of Bass Cef: All, Cars, Eat, Gas
9. To avoid difficulty in reading the notes, do not write the name of the notes under each one.
A) $\quad \mathrm{N}$ ame the following notes found in the treble clef and the bass clef.
1)

2)

B) Write the following notes found in the treble clef.

1) G on a line
2) E in a space
3) $F$ on a line
4) $C$ in a space
5) $F$ in a space
6) $E$ on a line
7) B on a line
8) A on a space
9) $G$ in a space
10) D on a line

C) Write the following notes found in the bass clef.
11) $D$ on a line
12) A in a space
13) $G$ in a space
14) $G$ on a line
15) $F$ on a line
16) $E$ in a space
17) $B$ on a line
18) $C$ in a space
19) A on a line
20) $B$ in a space


Note: To improve on your sight-reading skills (note-reading skills), do similar exercises. Try to read the notes as fast as you can without respecting the rythm. You can also use musical pieces to improve your sight-reading of notes.
10. Each note represents a duration as well as a sound depending on its position on the staff.
11. The notes will always be placed in a line/space sequence in whatever form. If however, we want to add a stem to the notes, it is important to place them correctly. If the note is placed below the third line, the stem is placed on the right side pointing upwards. If the note is placed above the third line, the stem is placed on the left side pointing downwards. If the note is on the third line, the stem can be placed in either position.

12. There are several types of notes. Below are the most commonly used:
whole note
half note
quarter note
eighth note
sixteenth note
13. The structure begins with the W H O LE note for it is the longest of duration of this table.


M
14. To simplify your musical reading, certain notes group together to complete the duration of time. A beam is used to join these notes together.

$$
\begin{aligned}
& \cdots(0 \quad 1)
\end{aligned}
$$

A) Indicate by using 1 note, the equivalent to the following group of notes:

1) • $\quad$ -
2)     - 
3) 
4) $\ldots$

5) . . .
B) $W$ rite other notes that equal the same value as the notes given.
6) $0=$ $\qquad$
7) $\mathbf{o}=$ $\qquad$
8) ol = $\qquad$
9)     - $=$ $\qquad$
C) W rite the number that correctly completes the sentence.

Remember your note tree:

1) There are $\qquad$ half notes in a whole note.
2) There are $\qquad$ quarters in a whole note.
3) T here are $\qquad$ quarters in a half note.
4) T here are $\qquad$ sixteenth notes in a whole note.
5) T here are $\qquad$ eighth notes in a quarter note.
6) T here are $\qquad$ eighth notes in a half note.
7) There are $\qquad$ eighth notes in a whole note.
8) There are $\qquad$ sixteenth notes in a quarter note.

## Value of Rests

15. To represent silence, there exist different types of rests. Below are the most used.

| - | Wholerest |
| :--- | :--- |
| 3 | Half-rest |
| y | Quarter-rest |
| y | Eighth-rest |
|  | Sixteenth-rest |

16. Each sign is equivalent to its corresponding note; therefore, it is worth the same value. The whole rest is worth two half rests and so on.


A）Complete the following examples by using a rest．
1）


4） $\qquad$
2） y $\%=$ $\qquad$
5）！！！＝ $\qquad$

3）


6）ソ ソ ソ $=$ $\qquad$

B）Indicate by using 2 rest equivalent to the examples below．
1）？$=$ $\qquad$
3）$-=$ $\qquad$
2）＿$=$ $\qquad$
4） $9=$ $\qquad$

C）C omplete the following sentences by adding in the correct number．
1）There are $\qquad$ quarter－rests in a wholerest．
2）There are $\qquad$ half－rests in a wholerest．
3）There are $\qquad$ sixteenth－rests in a quarter－rest．
4）There are $\qquad$ eighth－rests in a quarter－rest．
5）There are $\qquad$ quarter－rests in a half－rest．
6）There are $\qquad$ sixteenth－rests in a half－rest．
7）There are $\qquad$ eighth－rests in a half－rest．
8）There are $\qquad$ sixteenth－rests in a whole－rest．
9）There are $\qquad$ sixteenth－rests in a eighth－rest．

## Time Signature

17. M usic is divided into equal parts by bar lines. The area between the two bar lines is called a measure or bar. M easures may contain notes, rests or a combination of both.

18. A DOUBLE BAR is written to indicate the end of a piece of music. It is constructed by one thin and one thick line, with the thick line always on the outside.

19. The number of beats in each measure usually remains the same throughout the entire piece. This underlying beat per measure is represented by the TIM E SIGNATURE which is composed of two numbers, one on top and the other on the bottom placed at the very beginning of the musical piece immediately after the clef.


Note: The key signature will be studied in Level one.
20. The time signature appears at the beginning of the music after the clef sign. It is made up of two numbers; one on top of the other.
the upper number tells how many beats (or counts) are in each
 measure. In this example, 4.
the lower number tell what type of note receives the beat (1). In this example, a quarter note.
21. The time signature of $4 / 4$ can be represented by this sign as well. The $C$ is know asCOMMON TIME.

A) Complete the following measures by adding one or more notes.

B) Complete the following measures by adding one or more rests.

22. A double bar-line preceded by two dots instructs us to repeat the preceding passage.

23. If, you must repeat the passage at the beginning of the piece, you only place the double bar-line at the end of the musical passage.

24. If, in the repeated passage, you had to replace one or several of the last measures by other measures, you would use endings. 1st or 2nd endings are used. It would be indicated like this:


Therefore, you would play this section as follows: measure 1, 2, 3, 4, 1, 2, 5, and 6 .
25. If you have to repeat a larger section of a musical piece, there are two other means of repeating sections using the following symbols:

The two letters D.S. (dal segno) are used when the repetition is intended from the sign $\Psi$ situated at a certain section. The two letters D.C. (da capo) are used when the repetition is intended to be from the beginning of the musical piece.

26. The two symbols above are often accompanied with AL FINE or by TO CODA.
a) AL FINE indicates the end of the piece. For example:


This passage would be played in this fashion; measure $1,2,3,4,5,6,7,8,1,2$, 3 , and 4.
b) TO CODA indicates to play the repeat section until the symbol Dal Segno, $Ж$ which is connected to the CODA section, the ending of the piece. A CODA is a tail section to also indicate where the music will come to an end.
A) What sign would you use to repeat a definite section of a musical piece?
$\qquad$
B) What does D.C. mean?
$\qquad$
C) W hat does D.S. al Fine mean?
$\qquad$
D) Write the order in which the numbered bars/measures are played?

E) Explain in your own words the purpose of 1st and 2nd endings?
$\qquad$
$\qquad$

## Dynamics

27. A sound can be piano (soft) or forte (loud). H owever, within this range of opposites there exists other dynamics.

| Terms | Symbols | Meaning |
| :--- | :--- | :--- |
| pianississimo | ppp | very, very, soft |
| pianissimo | pp | very soft |
| piano | $\mathbf{p}$ | soft |
| mezzo piano | $\mathbf{m p}$ | medium soft |
| mezzo forte | mf | medium loud |
| forte | f | loud |
| fortissimo | ff | very loud |
| fortississimo | fff | the loudest possible |

crescendo cres. or gradually increasing in loudness
decrescendo decres. or gradually decreasing from loud to soft
A) Indicate by circling the symbol that represents medium soft after defining the following dynamics. ( symbol + definition ).

1) $\mathrm{mp}=$ _-_-_-_-_
2) f = $\qquad$
3) $\mathrm{mf}=$ $\qquad$
4) $\mathrm{ff}=$ $\qquad$
B) Indicate by circling the symbol that represents loud after defining the following dynamics. ( symbol + definition )
5) $\mathrm{mp}=$ $\qquad$
6) f = $\qquad$
7) $\mathbf{p}$ = $\qquad$
8) $\mathrm{pp}=$ $\qquad$
C) Describe the meaning of each symbol?
a)
$\ldots$ $\qquad$
b) $\qquad$

D) Arrange the following list of dynamics from loudest to softest:
```
f
pp
mf
ff
mp
p
```

E) Using the dynamic signs that you know, add the appropriate signs in the spaces provided.

Reveille !!! sounds the bugle is playing $\qquad$ loudly, as the sun rises. "G ood M orning" says Sgt. Bloggins" time to fall in for breakfast. All the Band cadets fall in moderately softly $\qquad$ .
Sgt. Bloggins gives the command "Attention" very loudly $\qquad$ . The cadets now are absolutely awake as they march off to the mess singing softly $\qquad$ as they march. The mess hall is a buzz with moderately loud chatter from the other cadets. Sgt. Bloggins very softly $\qquad$ walks up and down supervising the cadets. Off in the distance the very soft $\qquad$ sound of thunder can be heard. As it nears, the sounds becomes louder like a great big crescendo $\qquad$ . The rain softly
$\qquad$ taps on the roof of the mess. And gradually it gets louder, and soon becomes very loud $\qquad$ . The cadets are all finished breakfast and await the wet march back to their barracks talking and laughing moderately loud $\qquad$ . As they form up out side of the mess, their feet make moderately soft $\qquad$ noises in the mud. On the march back to barracks the cadets now must sing very loudly
$\qquad$ to be heard over the driving rain and thunder about them. As they round the corner of the building Sgt. Bloggins dismisses the group. They all run very loudly into the dry and warm barracks where a decrescendo $\qquad$ comes over the damp cadets as they now rest very softly______ on their beds awaiting the very loud $\qquad$ booming voice of their Sgt. And the day goes on.
A) H ow many lines are on a staff? $\qquad$
B) H ow many spaces are on a staff? $\qquad$
C) W hat are the lines called that are used for notes located above or below the staff?
$\qquad$
D) Write the abbreviations and the meaning of each dynamic:

| D ynamic | Sign | M eaning |
| :---: | :---: | :---: |
| mezzo piano |  |  |
| piano |  |  |
| fortissimo |  |  |
| mezzo forte |  |  |
| pianissimo |  |  |
| forte |  |  |

E) How many:
quarter rests in a half rest $\qquad$ eighth rests in a whole note $\qquad$
half rests in a whole note $\qquad$ quarter notes in a whole rest $\qquad$ eighth notes in a half rest $\qquad$ eighth rests in a whole note $\qquad$ quarter notes in a whole note $\qquad$
sixteenth notes in a eighth rest $\qquad$
quarter notes in a whole rest $\qquad$
eighth notes in a quarter note $\qquad$
eighth notes in a half note $\qquad$
eighth rests in a half note $\qquad$


## REVIEW EXAM - Level Basic

F) Write the correct note name under each note on the staff:

G) Place the dynamics in order from softest to loudest.
f $\mathrm{p} \quad \mathrm{mf} \quad \mathrm{pp}$ ff mp

## Dotted Notes and Rests

1. In Level Basic you studied the values of notes and rests.
2. There exists another sign of value. It is the dot placed right after the note and adds to the time value. The dot adds one half of the length of the note that it is attached to.

$$
\begin{array}{ll}
o .=0+d & \bullet=d+\downarrow \\
d=d+d & \vdots .=\}+9
\end{array}
$$

3. A second dot can be added. This second dot will also add to the time value of one half to the length of the first dot. For example:

$$
\begin{aligned}
& o . .=0 \quad+\quad+. .=0+\rho+d \\
& d . .=d+d+0 \quad \text { !. }=\}+9+\boldsymbol{y}
\end{aligned}
$$

A) W hat role does the dot play when it is attached to a note or a rest?
B) Complete the following examples by using notes or rests.
1)
o. = $\qquad$
4) \&. = $\qquad$
2) o. = $\qquad$
5) d. = ____-_-_
3) .. =

6) $\%=$ $\qquad$
C) Is it true to state that the second dot adds to the time value of one-half the length of the first dot?

## Tones and Semitones

4. To clearly understand certain theory notions, it is important to know all the notes that we find on the keyboard.

5. Always remember that the C is always found on a white key before 2 black keys. This memory aide will help you locate the other notes. The F is always found on a white key before 3 black keys.
6. A SEMITONE or H ALF STEP is the smallest distance between any two adjacent keys on the keyboard whether it is black and white or white and white.
e.g. E and F, B and C, D and D \#, etc. are all semitones apart
7. A WHOLE TONE or WHOLE STEP is made up of two semitones. On the keyboard, a whole tone is any two keys with one key, white or black, in between.
e.g. There is a tone between C and $\mathrm{D}, \mathrm{F}^{\#}$ and $\mathrm{G}^{\#}$ and $\mathrm{G} \#, \mathrm{E}$ and $\mathrm{F}^{\#}, \mathrm{~B}^{b}$ and C

Note: It is important to note that betweeen the adjacent degrees (i.e., semitones), there are no white or black keys. For example, the distance between $C$ and $D$ is not a semitone because there is a black key that separates the two keys.
A) Find all the semitones that we find on the keyboard.
between $\qquad$ and $\qquad$ between $\qquad$ and $\qquad$ between $\qquad$ and $\qquad$ between $\qquad$ and $\qquad$ between $\qquad$ and $\qquad$ between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
between $\qquad$ and $\qquad$
B) Is it true to say that the shortest distance between two adjacent degrees is 1 tone?
$\qquad$
C) H ow many tones or semitones exist between:

1) $E$ and $F^{\#}=$ $\qquad$ 5) $G^{b}$ and $A^{b}=$ $\qquad$
2) E and G \# = $\qquad$
3) $C$ and $E^{b}=$ $\qquad$
4) $B^{b}$ and $C=$ $\qquad$
5) A and $\mathrm{C}^{\text {\# }}=$ $\qquad$
6) B and C" $=$ $\qquad$
7) $C$ and $G=$ $\qquad$
8. Accidentals are signs or symbols placed to the left side of a note to indicate that the pitch is to be altered.

The sharp (\#) raises the pitch of the note by a semitone.
The flat (b) lowers the pitch of a note by a semitone.
The natural ( 4 ) cancels the effects of either the sharp or the flat.
The double sharp ( $\mathbf{x}$ ) raises a note already sharpened by another semitone.
The double flat (bb) lowers a note already flattened by another semitone.
9. The KEY SIGN AT URE is composed by the number of sharps or flats placed immediately after the clef, right before the time signature. The key signature can be altered within a musical piece.
10. The effect of an accidental symbol ceases at the termination of the bar in which it appears. H owever, within the measure, this symbol affects the note in whichever octave. O nce the measure is passed, the accidental is no longer valid, returning the state of the notes in concurrence with the key signature. By observing the example below, the first C in the second measure is natural and so is the second C because they both belong in the same measure.

A) Raise the following notes by a semitone: (write your answer in the empty measure)
1)

3)

2)

4)

B) Lower the following notes by a semitone:
1)

2)

3)

4)

C) Lower the following notes by one tone:
1)

3)

2)

4)

D) Raise the following notes by one tone:

2)

E) W hat are the accidental alterations placed on the staff?
F) $\quad W$ hat does an accidental do to a note?

## Simple Time Signatures

11. As mentioned in Level Basic, a measure can be subdivided in two, three, or four beats.
12. The measure of music into beats is called TIM E. Therefore a sign called a TIM E SIGN ATURE is necessary to indicate two things: (1) to indicate the number of beats in a bar, and (2) to indicate the note which is equal to one beat. A time signature is placed at the beginning of a piece of music right after the key signature. You will not see the time for the rest of the piece except if there is a change in time and a new time signature would appear. In Simple time, the upper number tells you how many beats there will be in each bar, and the lower number tells you what kind of note is equal to one beat. For simple time the lower number can be $1,2,4,8$ or 16 . For example:

| 1 represents | whole note | rarely used as a lower number |
| :--- | :--- | :--- |
| 2 represents | half note | most often used |
| 4 represents | quarter note | most commonly used |
| 8 represents | eighth note | commonly used |
| 16 represents | sixteenth note | less commonly used |

13. Therefore, if the lower number of the time signature is 4 , the quality of the note expressing the beat is the quarter note. If the lower number is 2 , the quality of the note expr essing the beat is the half note.

Note: A simple time can occur in the following forms of meter, however the most common are 2 (duple), 3 (triple) and 4 (quadruple). There are others but these are the most common.
14. The upper number of the time signature determines the number of beats contained in each bar (generally 2, 3, or 4).
e.g.

15. The lines found under the notes indicate the beats in each measure. O ne can also see that the number of beats found in each measure is equal to the upper number of the time signature.

## Strong Beats, Weak Beats

16. In musical measures, we distinguish between beats accented and those less so.

The former are called strong beats and the latter are called weak beats. Beats, like measures, are subdivided into portions called strong parts and weak parts.
17. The first beat is al ways strong in any time signature, but the other beats vary depending on how many beats there are per measure.

In a measure of 4 beats, the first and third beats are strong while the second and fourth are weak.

| 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: |
| strong | weak | strong | weak |

In a measure of 3 beats, the first is strong and the second and third are weak.

| 1 | 2 | 3 |
| :---: | :---: | :---: |
| strong | weak | weak |

In a measure of 2 beats, the first is strong and the second is weak.

| 1 | 2 |
| :---: | :---: |
| strong | weak |

18. At this time, it is important to introduce simple duple time: $2 / 2$. The upper number of the time signature is always 2 . This means that there are two beats in each measure. The lower number indicates which note receives the beat and, in this time signature, it is the half note.

Another symbol that represents $2 / 2$ is . It is called cut common time or, in Italian, it is known as alla breve.

A) Explain the role of the upper number in the time signature.
$\qquad$
$\qquad$
B) Explain the role of the lower number in the time signature.
$\qquad$
$\qquad$
C) Place the bar lines where neccessary according to the time signature.

2)

3)

D) Find and indicate the strong beats and the weak beats. ( $\mathrm{S}=$ strong, $\mathrm{W}=$ weak)
1)

2)

3)

4)

E) Explain why $2 / 4$ is different from $2 / 2$ (number of beats per measure and the quality of the note).
$\qquad$
$\qquad$
19. There are two kinds of semitones: the chromatic and the diatonic semitone.
20. A diatonic semitone is composed of two sounds following each other and not bearing the same name. Example: E to F, C \# to D, B to C, etc.

21. A chromatic semitone is composed of two notes with the same letter name with one being altered by an accidental. Example E to E\#, B to $B^{b}$.

A) Identify the different types of semitones (diatonic or chromatic).

1) $E \cdot F=$
2) $\mathrm{G}^{\text {\# }}-\mathrm{A}=$ $\qquad$
3) F\# - G = $\qquad$
4) $A-A^{\#}=$ $\qquad$
5) $B^{b}-B=$ $\qquad$
6) $B-C=$ $\qquad$
7) $B D \cdot B=$ _-_-_-_-_-_
8) D \#-E = $\qquad$
9) $\mathrm{F} \cdot \mathrm{F}^{\#}=$ $\qquad$
22. A scale is composed of a series of sounds succeeded by adjoining degrees. The scales most used are the diatonic scale and the chromatic scale.
23. A chromatic scale is composed of 12 notes each having an interval of a semitone starting from any note up to the octave (which is an interval composed of eight degrees, e.g. middle C to high C). The chromatic scale employs sharps as it ascends and flats as it descends.

24. When in a chromatic scale, never use the name of a note twice. Example: Ab, A\#, and A natural. Do not change the name of the tonic either. Example: if C is the tonic, do not use B\#.
25. A diatonic scale is a succession of eight adjacent notes of diatonic tones and semitones. Example: C, D, E, F, G , A, B, C. In this type of scale, each note has a different name. There are two kinds of diatonic scales: major and minor.
e.g. $\quad M$ ajor scale

Natural minor scale

## The Major Scale

26. A major scale consists of eight adjacent notes, the eighth being the octave note, and it must have the requisite number of diatonic tones and semitones. The succession of notes can be divided into two parts, each part called a tetrachord. The word TETRA means four. A tetrachord is a series of four notes having a pattern of:

Tetrachord
WholeTone WholeTone Semitone

27. The four notes of a tetrachord must be in alphabetical order. The example below is based on the major scale of C . It is visually clear that the two major tetrachords are separated by one tone.


Note: In all major scales, the semitones occur between the 3rd and 4th notes and the 7th and 8th.

28. The major scale of C is used as a model for all the other major scales. Therefore, to always obtain a distance of a whole tone or semitone, a sharp or flat may have to be added. For example, in the major scale of D, we will find F \# and C \# so that it respects the model. (inferior tetrachord + tone + superior tetrachord).


The Order of Sharps and Flats and their Placement on the Staff

## 29. Sharps

F\#, C\#, G\#, D\#, A\#, E\#, B\#
(Father Charles G oes D own And Ends Battle)
Placement on the staff:


The sharps follow the pattern of:

## UP $\uparrow$ DOWN $\downarrow$ UP $\uparrow$ DOWN $\downarrow$ DOWN $\downarrow$ UP $\uparrow$ DOWN $\downarrow$

W hen a sharp sign is attached to a line note, the sharp is centred on the line as in the example above. W hen a sharp sign is to be placed on a space, the sharp is centred in the space as in the example above.

## 30. Flats

$B^{b}, E^{b}, A^{b}, D^{b}, G^{b}, C^{b}, F^{b}$
(Battle Ends And D own G oes C harles' Father)
Placement on the staff:


The flats follow the pattern of:

## DOWN $\downarrow$ UP $\uparrow$ DOWN $\downarrow$ UP $\uparrow$ DOWN $\downarrow$ UP $\uparrow$ DOWN $\downarrow$

W hen a flat sign is to be placed on a line note, the flat is centred on the line as in the example above. When a flat sign is to be placed on a space, the flat is centred in the space as in the example above.

## 31. Circle of Fifths

The circle of fifths is useful in understanding scales and key signatures. It shows the relationship of one key to another by the number of sharps or flats in the key signature and the order in which they occur.

Let's start with a circle divided in twelve sections, i.e., like a clock.


Sharp Keys: start with C and move to the right in a clockwise direction.
Flat Keys: start with C and move to the left in a counter-clockwise direction.
Sharp Scales: the sharp keys ascend by 5ths
Flat Scales: the flat keys descend by 5ths
32. Enharmonic notes are two notes that sound the same but are written differently. Three pairs of keys share the same space on the circle:

## Db/C \#, Gb/F\#, Cb/B

These pairs of keys are enharmonics - they all have the same pitch but the notes are named differently.
A) How is a major tetrachord formed? $\qquad$
B) H ow many tetrachords are there in a major scale? $\qquad$
C) Place where the tetrachords are found by indicating the intervals between each note (tones and semitones).

E M ajor

D) Find the alterations of this major scale by indicating the tones and semitones.

2)

E) Identify the composition for each scale (flats and sharps).

1) D major $=$ $\qquad$ 6) A major $=$ $\qquad$
2) $E^{b}$ major $=$ $\qquad$
3) E major = $\qquad$
4) F \# major $=$ $\qquad$
5) G major $=$ $\qquad$
6) F major $=$ $\qquad$ 9) $\mathrm{C}^{b}$ major $=$ $\qquad$
7) $\quad B^{b}$ major $=$ $\qquad$
8) C major $=$ $\qquad$

## The Major Scale with Sharps

33. The tonic of the major scale with sharps in the key signature is always found a diatonic semitone above the 7th note of the major scale in the last sharp.
34. Therefore, if you are looking for the number of sharps in the G major scale, just move one semitone lower from G, i.e. move down to F\#, and count the number of sharps.


Note: Do not forget the order of the sharps: F\#, C\#, G\#, D\#, A\#, E\#, B\# (Father Charles Goes Down And Ends Battle)
35. For a better understanding, here is another example - scale of $B$ major. If you lower one diatonic semitone from B, you get A\# as the answer, therefore, making it the last sharp. By following the order of sharps, the scale of B major consists of 5 sharps.

36. Now, if you have the order of sharps but are missing the key of the major scale, you will proceed backwards. Take the last sharp and raise it by one semitone therefore finding the key of the scale. For example, you have these sharps: F\#, C \#, G \#, D \#. By raising the D \# by one semitone, we find the note of E; therefore, the key is E major.

(N otes of the scale of E major: E, F\#, G \#, A, B, C \#, D \#, E)
37. You can now find all the key signatures of the major scales by using this method. You have to remember that the last sharp at the key signature is always the 7th degree of the scale, which is a diatonic semitone lower than the tonic.
38. Below is a listing of all the major scales with their sharps (with the last sharp in brackets).

A) O nce you know the number of sharps of a major scale, how do we find its tonic?
$\qquad$
$\qquad$
B) Find the name of the following major scales as well as the names of the sharps found.
$N$ ame of the scale
$N$ ame of the sharps

1) 4 sharps $=$ $\qquad$
$\qquad$
2) 2 sharps $=$ $\qquad$
3) 1 sharp $=$ $\qquad$
4) 5 sharps $=$ $\qquad$
5) 7 sharps $=$ $\qquad$

Note: Do not forget to place the sharps in their proper order.
C) If you know the key of the major scale with sharps, how do you find its key signature?
D) Find the number and the name of the sharps found at the key signature of the following major scales.

1) G major $=$ $\qquad$
$\qquad$
2) F \# major $=$ $\qquad$
3) A major $=$ $\qquad$
4) E major $=$ $\qquad$
5) B major = $\qquad$

## The Major Scale with Flats

39. To find the number of flats at the key signature from the tonic of the scale, or to find the key of the scale from the number of flats, there is one simple rule to follow: The name of the tonic of the major flat scale is always the second to last flat at the key signature.
40. Therefore, if you are looking for the number of flats in the major scale of $D^{b}$, you would, for example, consult your circle of fifths and find all the flats leading to $\mathrm{D}^{\mathrm{b}}$ which is the tonic and adding the next flat to follow. All these flats belong to the major scale of $D^{b}$.

$\mathrm{D}^{b}$ major scale: $\mathrm{B}^{b}, \mathrm{E}^{b}, \mathrm{~A}^{b}, \mathrm{D}^{b}, \mathrm{G}^{b}$
41. If you have a number of flats and you are looking for the tonic, you proceed in the complete opposite direction. For example, you have three flats at the key signature

$B^{b}, E^{b}, A^{b}$

Note: Do not forget the order of the flats: $B^{b}, E^{b}, A^{b}, D^{b}, G^{b}, C^{b}, F^{D}$ (Battle Ends And Down Goes Charles' Father)
42. In remembering that the tonic is always the second to last flat, the tonic therefore would be $E^{b}$ major. (N otes of the scale: $E^{b}, F, G, A^{b}, B^{b}, C, D^{b}, E^{b}$ )
43. To find the composition of all the other major scales with flats, you always use the same model.
44. H owever, you have already mentioned that the scale of $F$ major is the exception. Its key signature has only one flat, so how can you use the model? You cannot use the model for this scale, you just have to know that the scale of F major has only one flat, $B^{b}$.


Note: You are encouraged to learn the key signature for the flat keys by memory. However, if you have any difficulty just refer to the method described above.

A) Write the flats in proper order.
B) Which flat do you use to find the tonic of a major scale with flats?
$\qquad$
C) List the flats found in the following major scales.

1) $\mathrm{G}^{\mathrm{b}}$ major $=$ $\qquad$
2) F major $=$ $\qquad$
3) $D^{b}$ major $=$ $\qquad$
4) $A^{b}$ major $=$ $\qquad$
5) $\mathrm{B}^{\mathrm{b}}$ major $=$ $\qquad$
6) $C^{b}$ major $=$ $\qquad$

Note: Do not forget to place the flats in their proper order.
D) $\quad N$ ame the key of the following major scales with flats.
1)

2)

3)

4)

45. The minor scale has three forms: natural minor, harmonic minor, and melodic minor. In this level, the first two will be studied. You will study the melodic minor in level three.
46. M inor scales are not formed in the same way as the major scale. Rather than having a major inferior tetrachord and a major superior tetrachord, minor scales have a major inferior tetrachord and a minor inferior tetrachord. For example:

47. The difference in the superior tetrachord enables you to distinguish the three forms of the minor scale.
48. All minor scales are named relative minor scales because they are formed from a major scale. In other words, each major scale has its three relative minor scales. These two scales are connected because they share the same key signature, that is, the minor scale uses the key signature of its relative major.
49. To find the relative minor of any major key, you must take the tonic of the major scale, and move backwards three semitones.

Example: C major ( $\mathrm{A}, \mathrm{B}^{\mathrm{b}}, \mathrm{B}, \mathrm{C}$ )

50. Each scale degree of a scale (major or minor) is associated with a roman numeral.
e.g.

| C major | C | D | E | F | G | A | B | C |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- |
|  | I | II | III | IV | V | VI | VII | VIII/or I |
| D harmonic minor | D | E | F | G | A | Bb | C\# | D |
|  | I | II | III | IV | V | VI | VII | VIII/or I |

Note: You may also use the sixth degree of the major scale to find the new tonic of the minor scale.
51. By taking this new note as the tonic, you create another scale (a series of 8 notes in scale pattern) keeping the same signature as the relative major scale.

e.g. A minor is a relative minor of C major.
52. The natural minor is one which uses the same key signature as its major relative scale with no changes. Therefore, the natural minor scale of A borrows the key signature of its relative major scale of C .

Here is an example using the major scale of E .


To find the relative minor you must use the tonic and move backwards three semitones. You may also use the sixth degree of the major scale. Both will give you the new tonic of the minor scale.

You have now found the relative minor scale of E major.
53. To find the relative harmonic minor, you proceed in the same manner as for the natural minor scale. H owever, certain changes are needed to distinguish between the two minor scales. In the relative harmonic minor, you have to raise the seventh (VII) degree of the scale by a semitone.
54. As in a previous example, the relative minor of C major is A minor. To have an A harmonic minor scale, you raise the seventh (VII) degree by one semitone.

A harmonic minor:


Note: If the seventh degree is already flat, you have to cancel the alteration so the distance remains a semitone apart. If, on the other hand, the seventh degree is sharpened, you have to alter the alteration with a double sharp to maintain the distance of the semitone.
55. In summary, here is a comparison of the three scales that you have studied. All the scales have C as their tonic.

A) What degree of the major scale do you use to find its relative minor?
$\qquad$
B) Find the relative minor scale of the following major scales.

1) major scale
natural minor
scale
harmonic scale


2) major scale

natural minor scale
harmonic scale



## The Arpeggio

56. An arpeggio is always composed with three degrees from the scale: I, III, V, and adding the VIII or I at the octave.

Here are the degrees associated with an arpeggio of a scale (C M ajor)

$H$ ere is the arpeggio on its own.

57. You can do the same thing to find the arpeggios of all the major and minor scales.
A) What degrees do you use to build an arpeggio?
B) Place the notes of the arpeggio on the staff that belong to the following scales:

1) $\mathrm{D} M$ ajor

2) $B \quad M a j o r$

3) $A^{b} \mathrm{M}$ ajor

4) $D$ M inor


## The Fermata

58. The fermata indicates a pause. The note or rest is to be held longer than its normal value. The symbol is placed above or below the note or rest. The pause is at the discretion of the conductor as long as it suits the style and period of the music. The pause is illustrated by the following sign:

THE FERMATA


## Words that Refer to Tempo and Variation in Tempo

59. Throughout your musical training, you will have to recognize and understand Italian terms that you will frequently find in your musical pieces. These terms are the composer's way of expressing the interpretation of the musical piece. Certain words correspond to tempo, variations in tempo, dynamics, direction, etc.
60. Tempo is an Italian word meaning "rate of speed". Tempo marks let us know how fast or slow a piece should be played. Tempo marks are written in Italian.

| Italian | English |
| :--- | :--- |
| Largo | very slow |
| Lento | slow |
| Adagio | at ease (not as slow as largo, but slower than andante) |
| Andante | moving along, flowing |
| M oderato | moderately |
| Allegro | lively, cheerfully |
| Vivace | fast, quickly |
| Presto | quick |

61. M oderato may be combined with other words:

Allegro moderato - slightly slower than allegro, but quicker than moderato
A gradual change in Tempo

| Italian | Term | English |
| :--- | :--- | :--- |
| ritardando | rit. or ritard. | gradually getting slower, <br> holding back of tempo |
| accelerando | accel. | accelerating, getting quicker <br> a tempo |
| a tempo | resume original speed/tempo |  |

62. To reduce the amount of music required for a piece of music, several Italian terms and symbols are used to give direction to the players. M uch like repeat signs or first and second endings, these are alternate ways to indicate repeats.

| Italian | Sign | English |
| :--- | :--- | :--- |
| D a capo | D.C. | repeat from the beginning |
| D al Segno | D.S. |  |
| Fine | fine | the end |
| Coda* | P | an added ending |

* When the coda sign appears in music, it means to skip directly to the coda, which is an added ending usually marked with the same word.



## Articulations

63. There are various ways to articulate the notes you find in a musical piece. It is very important to understand and know each articulation because through them, the composer's thoughts are expressed. Below are the articulations you should be familiar with:

Tie
joins two notes of the same pitch
Slur joins two or more notes of different pitch. The notes within the slur all belong to one phrase and are played in legato style. O nly the first note is articulated.


Legato

Staccato short, detached, method of playing a note. Indicated by a dot over a note, so that it is shortened and thus detached from the previous notes by being held for less than its full value.


Accent
to give notes more emphasis, held for its full value


M arcato a strong accent but short; each note is emphasized


Tenuto the note is sustained with a light accent to its full value.

A) $\quad \mathrm{M}$ atch the word to the meaning.

Tie Joins two or more notes of different pitch. The notes within the slur all belong to one phrase and are played in legato style. The first note of the slur is the only one articulated

Tenuto

M arcato Begins with a stong accent and diminishes. It is held for its full time value.

Legato
The note is sustained with a light accent. The same intensity applies for the full value of the note.

Staccato
Short, detatched. The note is usually held for about half its value.

Accent
Joins two notes of the same pitch and prolongs it.

## REVIEW EXAM - Level One

A. Write the major scale, the natural minor scale and the minor harmonic scale with the following key signatures. Circle the notes of the arpeggio for each scale.

1) M ajor scale

2) M ajor scale


M inor harmonic scale

## 3) M ajor scale


4) M ajor scale

$N$ atural minor scale


M inor harmonic scale


Note: Do not forget to place the alterations in the proper order.


B) Explain the function of the dot added to a note or rest?
C) Complete the following examples by using one note or rest:

3) ++ =
2) $\}+y=$ $\qquad$
4) $e+\bullet=$ $\qquad$
D) What you call the smallest distance between two notes? $\qquad$
E) How does a sharp modify a note? $\qquad$
F) W hat is the natural sign ( $\boldsymbol{q}^{\text {( ) used for? }}$
G) H ow does a flat modify a note? $\qquad$
H) W hich alteration raises a note by one tone? $\qquad$
I) W hat do you call the alteration that appears in the musical piece? $\qquad$
J) Identify the different kinds of movements (scale or leap) in the following examples: (s = scale, I = leap)

1)
)_-_-_
2)
2)__-_
3)
)__-_
4)
)_-_-_
5)
_-_-_-
6) $\qquad$ 7)
8)
$\qquad$
K) Write the chromatic scale of G (ascending and descending):

L) Identify the following semitones (diatonic or chromatic):

M) Write the major scale of $D^{b}$ and indicate the tones and semitones (refer to the tetrachords):

$\mathrm{N}) \quad$ What is the order of sharps?

0) W hat is the order of flats?

P) Write the correct key signature of the following major scales:

Q) What do you do to find the number of flats that belong to a major scale? (Use the circle of fifths.)
$\qquad$

R) Find the major key that belong to the following key signatures:

S) Explain the use of the fermata?
$\qquad$
$\qquad$
T) Write the meaning of the following terms:
Vivace $\qquad$

Allegro $\qquad$
Lento $\qquad$
Ritardando $\qquad$
U) Write the correct term that describes the following articulations:


1) $\qquad$ 2)
2) $\qquad$ 4)
3) $\qquad$

Notes


## The Triplet

1. When three notes are grouped together with a figure " 3 " above or below the notes, the group is called a triplet. A triplet is meant to be played in the time of two notes of the same value. They are most frequently found in simple time.


Note: The most common triplets are those that consist of quarter, eighth, and sixteenth notes.
2. Rests can also be part of a triplet. Its value represents the note it is replacing.

A) Indicate with one note the equivalent of the following triplets:

1) $\quad \frac{3}{0}$ $\qquad$
2) $\quad . \quad$ - $\qquad$

$\qquad$
$\qquad$
B) Add bar lines to make complete measures according to time signature indicated.
3) 


2)

C) Add triplets to complete each bar.

3. There are two categories of time signatures - SIM PLE and COM POUND. C ompound time is divided into the same three groups as simple time, called COM POUND DOUBLE (meaning two), COM POUND TRIPLE (meaning three), and COM POUND QUADRUPLE (meaning four).
4. In compound time, notes are grouped in a three beat pattern called pulses.

Note: While the term pulse is normally used to refer to a beat, for the purpose of explaining compound time clearly, the word "pulse" here refers to a DIVISION of the beat and not the beat itself. (For example in $6 / 8$ time, each eighth note is a pulse).
5. In 2/4 time, there are two beats or pulses in a bar, and in $6 / 8$ time, there are six beats or pulses (that is, two groups of three beats) in a bar. As in simple time, notes and rests in compound time are grouped so as to make the divisions of the beats as clear as possible. All the notes belonging to one beat are grouped together. N otes in compound time are usually in the form of dotted notes.


We write:


In referring to the previous examples, you can see that the complicated rhythms found in the simple time are simplified in the compound time.
6. The following are examples comparing simple to compound time:


Replaced by:


Four beat time


Replaced by:

A) Indicate the bar lines in reference to the time signature:
1)

2)

3)

B) C omplete the following measures with a note or a rest.


## Scale Degrees

7. In Level 0 ne, you studied that a scale is an al phabetical arrangement of eight notes beginning and ending with the same note; e.g C-C, D-D, etc. Each note has a function, "a degree", in a scale and can be given its own technical name regardless of where it is written or played.

| D egree | Function |
| :---: | :--- |
| I | Tonic |
| II | Supertonic |
| III | M ediant |
| IV | Subdominant |
| V | D ominant |
| VI | Submediant |
| VII | Leading note |
| VIII | Octave or tonic |

8. The notes or degrees of a scale are numbered in Roman N umerals based on their particular function.
9. Of all the degrees in a scale, some have more important functions than others:
a) Tonic (I). The most important note of any scale is the tonic because it gives its name to the key. It is both the lowest and highest tone of the scale.
b) D ominant (V). The dominant is also an important degree. The word comes from the Latin "dominus" meaning master. The chord built on the dominant is so strong that it masters the key.
c) Mediant (III). The mediant is also an important degree. It is the middle note between the tonic and the dominant and it determines whether or not the scale is major or minor.
d) Leading Note (VII). The seventh degree, otherwise known as the leading note, is also necessary in order to identify the key. It is always a semitone below the tonic and leads directly to it. (The seventh scale degree is referred to as subtonic only when the distance between it and the tonic is a tone apart).
e) The names of the other degrees are based on where they are placed in the scale and are secondary to the primary degrees mentioned above.
A) $\quad M$ atch each degree with its technical name:

I Mediant
II Subdominant
III Supertonic
IV Tonic
$V$ Leading note
VI $\quad 0$ ctave or tonic
VII Superdominant
VIII Dominant
B) W hy is the seventh degree (VII) called the leading note?
C) W hy is the mediant's role important in a scale?
$\qquad$
$\qquad$
$\qquad$

## To Find the Key of a Given Melody

10. Each musical piece is written in a key. This key is determined by what is found in the key signature. Each key is determined by a grouping of sharps or flats written at the beginning of the musical piece. This key signature makes it unnecessary to write repeated accidentals throughout the music.
11. Given the key signature and a melody, the music may be written in either the major or minor key.
12. Apart from the key signature, there are other reference points that could help in determining the key of a musical piece. Firstly, the last note of the piece is usually the tonic of the key used. Secondly, a melody in a minor key will usually contain an accidental beside the raised seventh.

ATTENTION: Do not forget that this note is altered a semitone higher than what is normally found in the major scale.

Let's observe the following excerpts:


The first melody has no accidentals except those which belong to the diatonic major scale of G . It also ends on the tonic.


In the second melody, not only do we find the key signature of one sharp, but we find a D \# which is the leading note of E minor. This melody also ends on the tonic.
A) State the key of each melody:
1)

2)

3)

4)


## Intervals

13. An interval in music is the distance in pitch between two notes.
14. The size of an interval is measured by the number of letter names contained in the interval including both the bottom and top notes. Accidentals are not included when counting the numerical distance between the notes. The accidentals will only determine the nature of the interval which will be discussed in the coming levels.

Note: An interval is always calculated from bottom to top with the lower note counted as 1. An interval that passes an octave is considered compound.

Two notes or more of the same sound is called unison.

A second ( $\left.2^{\text {nd }}\right)$ is an interval composed of two degrees

A third ( $3^{\text {rd }}$ ) is an interval composed of three degrees

A fourth ( $4^{\text {th }}$ ) is an interval composed of four degrees

A fifth ( $\left.5^{\text {th }}\right)$ is an interval composed of five degrees

A sixth ( $6^{\text {th }}$ ) is an interval composed of six degrees

A seventh ( $7^{\text {th }}$ ) is an interval composed of seven degrees

An octave ( $8^{\mathrm{ve}}$ ) is an interval composed of eight degrees

14. It is obvious that as well as finding the SIZE of the interval, you must also find the Q UALITY of the interval whether it be major, minor, perfect, augmented, or diminished.

## Intervals of Seconds and Thirds

15. A second can generally be major or minor. A second is rarely diminished or augmented. A major second is always composed of a distance of one tone between two notes. On the other hand, the distance of a minor second is composed of only one diatonic semitone.
minor second major second


Note: Consider all intervals as if the lowest note is the tonic of the major scale
16. A third can generally be major or minor. For it to be major the distance is one tome and a half. For easier calculation, refer to the lower note of the interval as your tonic. If the highest note is the mediant of the major scale, then the interval is a major third. The same procedure applies if it is a minor third.
major third minor third


Corresponds to the key of:

C major F major
E major $A^{b}$ major
C minor
F\# minor A minor E minor

Note: As previously mentioned, the quality of the third determines the major or minor mode.
A) $\quad \mathrm{N}$ ame the following intervals ( $2 \mathrm{nd}, 3 \mathrm{3rd}$, etc.)

B) $\quad \mathrm{N}$ ame the following intervals ( M - major, m-minor)

11 $\qquad$ 12
2 __-_
13 $\qquad$ 14 $\qquad$ 15 $\qquad$ 16 $\qquad$ 17 $\qquad$ 18 $\qquad$ 19 $\qquad$ 20 $\qquad$
C) $\quad \mathrm{N}$ ame the following thirds ( M - major, m - minor)


## Transposing a Melody

17. Transposition generally means a change of key. It is often used in songs to accommodate the range of a singers's voice or an instruments's range. The word can also mean a change of clef without necessarily meaning a change of key.
18. At this stage, you will only transpose melodies an octave higher or an octave lower.
19. To transpose an octave higher, you must rewrite the melody where each note is raised by and octave - eighth notes.

Original M elody


Transposed an octave higher

20. When transposing up or down, the following steps should be followed:

1) The clef, key signature, and time signature must always be written correctly.
2) The stems of the notes must be placed in the proper direction.

Note: The names of the notes must remain identical in the transposition.
3) The notes of the melody must always be exactly an octave apart.
4) All accidentals and alterations must be written in.
5) The melody remains in the same key.
21. When transposing an octave lower the same procedure follows but each note is lowered by an octave.
e.g.

Original melody


Transposed an octave lower

A) Transpose the following two melodies an octave higher.

B) Transpose the following melody an octave lower.

A) Write the triplet that corresponds with the note indicated below:

1) $0 \quad=$ $\qquad$
2) 0 = $\qquad$
3) $0=$ $\qquad$
4)     - $=$
$\qquad$
B) W hat is the technical term of each scale degree:
5) $\mathrm{VI}=$ $\qquad$ 3) $111=$ $\qquad$
6) $I V=$ $\qquad$
7) $\mathrm{VII}=$ $\qquad$
8) $1=$ $\qquad$ 6) $V=$ $\qquad$
C) W hich degree of the scale plays an important role? $\qquad$
D) Find the two possible keys in the following excerpts. Identify and explain your responses:
9) 


2)

3)

4)

E) Place the number in order (slowest to fastest) the following words of tempo.

1) presto
2) allegretto
3) allegro
4) adagio
5) lento
6) larghetto
7) largo
8) prestissimo
F) $\quad \mathrm{N}$ ame the following intervals (2nd, 3rd, 4th, etc)

G) Identify the following seconds (M - major, or m - minor)

H) Identify the following thirds (M - major, or m - minor)

I) Transpose the following melody one octave lower:

J) Write the bar lines at the appropriate place:


Notes

## Understanding all the Regular Time Signatures

1. In Levels $O$ ne and Two, you studied time signatures most commonly used. The following chart compares simple and compound time signature.

2. It is very important to understand that in simple measures, the beats are divisible by two, and in compound time, the beats are divisible by three.
3. Observe attentively the time signatures that are less common, for you will surely find them in your musical pieces.

Note: As in simple time, notes and rests in compound time are grouped so as to make the divisions of the beats as clear as possible. All the notes belonging to one beat are grouped together.
A) Complete the following measures by adding a note or a rest.

B) Complete the following measures by using either the thirty-second note or the sixty-fourth note.

4. As you studied in Level Two, an interval is the distance of pitch between two notes. We also studied the specific names for the size (2nd, 3rd, 4th, etc.) and quality (major, minor) of each interval.
5. Notice that the unison, fourth, fifth, and octave are called PERFECT, but the second, third, sixth, and seventh, can be called M AJOR or M IN OR. All intervals are named, as the lower note is, for the moment, theTO NIC.

| Perfect | M ajor or M inor |
| :--- | :--- |
| unison | second (2nd) |
| fourth (4th) | third (3rd) |
| fifth (5th) | sixth (6th) |
| octave (8ve) | seventh (7th) |

6. To determine the nature of each interval, we can use the major scale as a reference point, because all intervals are perfect or major depending on the type of interval.

7. The word AU GM EN TED means "made larger". When a perfect or major interval is made larger by a half step or semitone, it becomes an Augmented Interval.
8. The word DIM INISH ED means "made smaller". W hen a perfect or minor interval is made smaller by a half step, it becomes a D iminished Interval.

9. To simplify the terms minor, augmented, etc., they can be written as outlined in the chart below. Either method is acceptable but remember to stick to one or you may become confused.

| M ajor | M | + |
| :--- | :---: | :---: |
| M inor | $m$ | - |
| Augmented | aug | $x$ |
| Diminished | $\operatorname{dim}$ | 0 |

10. After having been able to qualify the second and the third intervals in Level Two, you will now learn how each perfect interval is composed (unison, 4th, 5th, 8ve).

Unison: Two notes or more of the same sound is a Unison.


Fourth: All notes that have the same accidentals (\# to \#) are perfect except $F$ and $B$ and their derivatives ( $F$ \# and $B *$, etc).


To obtain a perfect fourth between these two notes, the interval has to have $a F$ and $a B$ or an $F$ and a $B$. As mentioned above, if the interval is a semitone larger, it becomes augmented.
If the interval is a semitone smaller, it becomes diminished (4th $=2^{1} / 2$ tones)

Fifth: The same rule applies with this interval as the fourth ( 5 th $=3 \frac{1}{2} / 2$ tones)


O ctave: If the two notes have the same name and the same accidental, the interval is considered perfect. If the interval is a semitone larger, then it is augmented. If the interval is a semitone smaller, it is diminished.

11. Do not take for granted that once a note is sharp the interval automatically is augmented or if the note is flat, it is automatically diminished. The important factor here is the distance between both notes. Always remember that the bottom note is considered the TO NIC. (even without a key signature present). You must take into consideration the key when calculating your interval.


When an interval is turned upside down, it becomes inverted. You can invert an interval two ways:

1) write the lower note above the upper one, and
2) visa versa.


W hen an interval is inverted:

- a major interval becomes minor
- a minor interval becomes major
- an augmented interval becomes diminished
- a diminished interval becomes augmented
- a perfect intervals remain perfect

Note: The number of the interval plus the number of the inversion always add to nine.
A) Find the complementary interval to complete the octave:

B) Identify and name the following intervals:

C) Complete the following intervals:


## Melodic Minor Scales

12. In Level O ne, you learned that the minor scales come in three forms: the natural minor, the harmonic minor, and the melodic minor scales. We have seen the first two scales, now it is time to study the third - the M ELODIC M IN OR SCALE.
13. You remember that to find the tonic of the relative minor scale, you either take the sixth scale degree of the major scale or take the tonic and move backwards three semitones.

Tonic of the relative minor scale
C Major

14. Taking this new note as tonic, you create another scale (a series of 8 adjacent notes) and you keep the key signature of the major scale.

A minor

or I
15. To find a melodic minor scale from the natural minor, you have to raise the VI and VII scale degrees a semitone higher when ascending and then lower them a semitone when descending returning them to their natural state according to the key signature.


In another key Relative minor scale of $\mathbf{F}$ M ajor

A) Construct the melodic minor scale of the following major scales (ascending and descending).


## Three-Note Chords

16. A chord is the name given to any three or more notes sounded simultaneously. The most basic chord is a TRIAD, that is, three sounds built up in thirds.

17. These triads may be built on each degree of major and minor scales. The note that they are built on, that is, the lowest note, is called the ROOT (C - of the C major scale) of the triad. The next note is a diatonic third above the root and it is named the THIRD ( E ), and the third sound is a diatonic fifth above the same root called the FIFTH (G).
18. No matter how the notes are placed on the staff, the chord remains the same. For example, these three chords (below) all belong to the chord of C major.


## Major Chord or Minor Triads

19. A major perfect chord is composed of a root, a major third, and a perfect fifth. A minor chord is composed of a root, a minor third, and a perfect fifth.

20. You can therefore state that it is the nature of the third that will determine if the chord is major or minor. On the other hand, the perfect fifth belongs to both chords. Examine the following examples of the major and minor chords.

A) $\quad \mathrm{N}$ ame the following chords (major or minor)

B) Compose the following chords


## Tempo and Style

21. Throughout your musical training, you will have to recognize and understand new Italian words that you will frequently find in musical pieces. These terms are the composer's way of expressing the interpretation of the musical piece. Certain words correspond to tempo, variation of tempo, and style, et
22. The following are words that you might find in a musical piece at your level.

## Variation in Tempo

Italian English
piu mosso
meno mosso
more movement, quicker less movement, slower

## Style

## Italian

animato
con moto
espressivo
leggiero
maestoso
tranquillo
English
animated
with motion
exspressively
light and graceful
majestically, dignified
tranquil

## Adverbs used in conjunction with other words

## Italian

non troppo
troppo
molto
simile

English
not too much
too much
very much
the same

## Transposition

23. When a melody is rewritten with the exact same sequence of notes and intervals into another key, it is called transposition. This raises or lowers the notes to make a melody easier to sing or play, or so an instrument can play it in another key.
24. In Level Two, you also studied transposition by an octave higher or an octave lower. At times it is necessary to change clef due to too many ledger lines. The following melody was transposed an octave lower. In the original clef, it is difficult to read, but in the new clef it is much clearer.

Original melody


Transposed melody an octave lower


Rewritten in the bass clef

25. K nowing that the middle C can belong to both clefs, all that is left to find is the other notes from this reference point.

26. W hatever the transposition, if the melody is written too high or too low, you can always change the clef. Look at the following example. In the bass clef, the melody is written too high, therefore, it was necessary to transpose it in the treble clef.

0 riginal melody


Transposed melody an octave lower


## Transposing by Changing the Key

27. It will happen that the key of a musical piece is not suited for a voice or an instrument. W hen this is the case, the melody can be transposed in another key.
28. To transpose the melody, you must know the key of the original melody and the new key. For example, the melody is written in C major and you want to transpose it to a major second higher. The new key has to be a major second higher from $C$. O nce the key is found, the new key signature is written down.

C major


D major

29. Once the new key is found, each note of the original melody is transposed a major second higher. Only the name of the notes change. Everything else remains the same.

C major


D major (major 2nd higher)

30. As for the alterations, they have already been placed at the key signature. If however, while transposing, there are accidentals, you must take them into consideration when finding the new note at the desired interval.

Ebmajor


F major (major 2nd higher)

31. If you want to transpose the melody a major 2nd lower, for example, you proceed in the same manner.
A) Transpose the following melodies a major 2nd higher.

B) Transpose the following melodies a major 2nd lower.

C) Transpose the following melodies by an octave using different clefs.

1) an octave higher

2) an octave lower

A) Which intervals belong to the category of minor and major?
B) Which intervals belong to the category of perfect?
C) $\quad \mathrm{N}$ ame the following intervals:

D) Construct a melodic minor scale from its relative major (ascending and descending)


_____ melodic minor


E major

_____ melodic minor


C\#major

__-_-_
melodic minor
E) $\quad \mathrm{N}$ ame and identify the following chords:

F) $\quad \mathrm{N}$ ame the following complementary or inversed intervals. Identify them as well (maj., min., dim., aug.).

G) $M$ atch the word with its definition:

| Animato | expressively |
| :--- | :--- |
| Simile | not too much |
| M aestoso | with spirit |
| Non troppo | same |
| Tranquillo | less movement |
| Piu mosso | very much |
| M eno mosso | more movement |
| M olto | with motion |
| Con moto | tranquil |
| Espressivo | too much |
| Leggiero | light and graceful |
| Troppo | majestically |

H) Complete the following measures by using one note or rest.

I) Transpose this melody a major 2nd higher.

J) Transpose this melody a major 2nd lower.

K) Transpose this melody an octave higher. Use the appropriate clef.


Notes

## Irregular Time Signatures

1. Irregular time signatures are time signatures with five or seven beats within a bar. These time signatures are mostly used in twentieth century music.
2. Often these two kinds of measures are alternates to the regular time signatures.

A measure of 5 beats can be considered an alternate to a measure of 3 beats and a measure of 2 beats or vice versa.


A measure of 7 beats can be considered an alternate to a measure of 4 beats, and a measure of 3 beats.

3. We will often see a perpendicular line of dots separating both sub-measures to clearly indicate the strong beats.

4. In the preceding measures, it is possible to indicate the irregular measures as simple measures: the upper figure indicates the number of beats or pulses in each measure. The lower figure indicates the kind of note that represents one beat. The lower figure can be a $1,2,4,8,16$. The most common used are the 8 to represent the eighth-note and the 4 , the quarter note.
A) Place the bar lines at the right place:

5. You learned to find the key of a melody by using the key signature as a reference in Level Two. N ow you will find the key of a melody that does not have a key signature but accidentals throughout.
6. IF ALL THE ACCIDENTALS ARE SH ARPS, note down all the sharps found throughout the melody and then place them in their order. In this way, the key signature can be found.


Since this melody has three sharps ( $F \#, C \#, G$ ) it is written in A major.
7. If after you have placed the sharps in order as in the example below you find B\# does not belong. For example:


The sharps are $F \#, C \#, G \#, D, B \#, B$ sharp does not belong in the order of sharps; therefore, $B \#$ must be an accidental. If you raise $B$ by a semitone to $B \#$, you will find that you are in the key of $C \#$ minor.

Note: The last note of the musical piece can also be used to find the key.
8. In this example, the sharps seem to be in good order. H owever, the F \# is raised by a semitone to a F double sharp (*). Therefore, it is the F double sharp that is the leading note that we find in the $G$ \# minor scale with 5 sharps at the key signature.

9. IF ALL THE ACCIDENTALS ARE FLATS, note down all the flats found throughout the melody and then place then in their order so that you may find the key signature.


With $B^{b}, E^{b}, A^{b}$, and $D^{b}$, the melody is written in $A^{b} M$ ajor.
10. If the flats can be organized to form a key signature, the melody is written in a major key. If one of these flats is natural, then the melody is written in the relative minor key.


With the $B$ natural, $E^{b}$, and $A^{b}$, the melody is written in $C$ minor for $B$ is the leading note of this scale.
11. IF THE ALTERATION S ARE SH ARP AN D FLATS, try a key signature of flats and raise the leading note by a semitone to a sharp.


Two flats at the key signature indicate that the melody is in $\mathrm{B}^{\wedge}$ or G minor.
A) Indicate the keys of the following melodies:

12. As already mentioned, in a major scale, the sixth or seventh intervals are always major. In a minor scale, these same intervals are minor because the interval is a semitone smaller.

13. To find the quality of the 6th or 7th, refer to the major scale. Construct a major scale from the lower note. If your second note is exactly the same as in the major scale, your 6th or 7th is major.
14. H owever, at times, it is difficult to determine the nature of the interval by using the major scale as a reference. There is, however, a memory aid that can be useful. Find the complementary or inverted interval and you will be able to find the nature of the first interval. To find the complementary or inverted interval, all you have to do is invert the interval like so:

15. In Level Three you studied inverted or complementary intervals. Let's review.
16. H ere is a table to illustrate the nature of the intervals.

## Interval Equivalent Table <br> Complementary

## INTERVAL + INTERVAL

| Perfect | Perfect |
| :--- | :--- |
| M ajor | Minor |
| M inor | M ajor |
| Augmented | Diminished |
| Diminished | Augmented |

16. For a better understanding, let's analyze the following example. If you have a third, its complementary interval is a sixth. If the third is minor, then the sixth will be major.

17. If we have a perfect 4th, then its complementary interval will be a perfect 5th. H owever, if the 4th is raised by as semitone, the interval becomes an augmented 4th and its complementary interval becomes a diminished 5th.


Note: This table works for all simple intervals that result to an octave.
A) Find and indicate the complementary or inverted interval of the following intervals:

| 1) | M ajor second | = |
| :---: | :---: | :---: |
| 2) | M inor second | = |
| 3) | M ajor third | = |
| 4) | M inor third | = |
| 5) | Perfect fourth | = |
| 6) | Diminished 4th | = |
| 7) | Diminished 5th | $=$ |
| 8) | M ajor sixth | = |
| 9) | M inor sixth | = |
| 10) | M ajor seventh | = |

B) Indicate whether each interval is a sixth or seventh:

8 $\qquad$
9 $\qquad$
10 $\qquad$ 11 $\qquad$ 12 $\qquad$ 13 $\qquad$ 14 $\qquad$
C) Name the following intervals:

$1_{\text {__-_ }} 2$ $\qquad$ 3 $\qquad$
4 $\qquad$
5 $\qquad$
6 $\qquad$
7 $\qquad$

8 $\qquad$ 10 $\qquad$ 11 $\qquad$ 12 $\qquad$ 13 14 $\qquad$

15 __-_- 16 $\qquad$ 17 $\qquad$ 18 $\qquad$ 19 $\qquad$ 20 $\qquad$ 21 $\qquad$

D) Find the upper note needed to create the following intervals:

E) Find the lower note needed to create the following intervals:


## Chords

18. As you learned in Level Three, a chord is built on the root, the third, and the fifth. If you take the major scale and build a chord on all the degrees you can determine the nature (major, minor, augmented, diminished) of all the chords of the major scale.

19. By analyzing the major scale (above), we find that the tonic (I), sub-dominant (IV), and the dominant (V), are all the major chords. The supertonic (II), the mediant (III), and the sub-mediant (VI), are all minor. Finally, the leading note (VIII) is a diminished chord because the fifth is diminished.
20. All the chords (major and minor) have different roles depending on their position in the scale. For instance, $G$ major can be the tonic (I) in $G$ major, the subdominant (IV) in D major, and the dominant (V) in C major.

## G major



D major


C major

21. A minor chord like D minor can also be found in three different minor keys: it is the supertonic in C major, the mediant in Bb major, and the sub-mediant in F major.

C major


F major

22. As mentioned, the chord found on the seventh degree of a major scale is diminished. A DIM IN ISHED TRIAD (chord) has a minor third and diminished fifth above the root.


In this example (above), the four chords are composed with minor thirds and diminshed fifths. Example A can be the chord of the leading note of $D$ ' major. Example B can belong to G b major; Example C of C major and Example D of G major.

Note: It is important to remember the make up of the principal chords of the harmonic minor scale: I, IV, and V degrees. The purpose for the role of the other chords can be studies by personal choice.
23. With the harmonic minor scale you also can find the nature of the chords of each degree.

24. In summary, this table explains the break-down of all chords:

## Major Scales H armonic M inor Scales

| Major Chords | I, IV, V | V, VI |
| :--- | :---: | :---: |
| Minor Chords | II, III, VI | I, IV |
| Diminished Chords | VII | II, VII |
| Augmented Chords | N/A | III |

Note: This table included only the principle chords of major and minor scales.
A) On which degrees of the major scale can you have major chords?
B) On which degrees of the major scale can you have minor chords?
C) In a harmonic minor scale, what is the nature (maj., min., or dim.) of the following chords:

1) $V=$
2) $I V=$
3)     - $=$
$\qquad$
$\qquad$
D) Find 3 scale degrees for each chord given, indi cate the scale degree and key for each. Example: F major chord can be subdominant of C major, the dominant of Bb major, and the tonic of F major.

E) Why is the chord of the 7th degree different from the other chords? In what way? (nature and how it is built)
F) W hat does the chord of the 5th degree of the major scale and the chord of the 5th degree of the minor scale have in common?
$\qquad$
$\qquad$
G) Write out all the chords that we find in the following scales. Indicate their nature: (Example: A maj, F min, E dim, etc... )
B. major


E major


A major

H) Write down the chords that are found on the I, IV, and V degrees of the following minor harmonic scales. Indicate their nature.
B. major


B harmonic minor


## Transposing a Melody

25. As seen in Level Three, it sometimes happens that you have to transpose a melody because it does not match a voice or instrument. You can transpose the melody in many different keys, and also in many different intervals.
26. To transpose a melody in a new key, you use the same steps as these learned in Level Three (Transposition of a major second higher):
a) Determine the key of the original melody.
b) Find the new key in accordance with the new interval wanted.
c) Write down the accidentals at the key signature of the new melody.
d) Transpose each note of the melody by the given interval.
e) Add any accidentals that appear in the new key that correspond to the transposition of the original note to the new note.
27. For example, if you want to transpose the following melody a major third higher, you will use this step by step method:


This example is in C major (step A). If you raise the C a major third higher, the new key will be E major (step B). N ext, you write down the new key signature (step C).


By respecting the desired interval, you transpose each note (step D) while keeping everything else the same (rhythm, dynamics, etc.).


Finally, you add any accidentals that are a result of the transposition (step E). The arrows indicate the accidentals.

28. To ensure that all you transpositions are correct, you must follow the step-by-step method outlined above.

## EXERCISES

A) Transpose this melody by the requested interval.


A perfect fourth higher


A perfect fifth higher


M ajor sixth higher


M inor third lower


Perfect fourth lower


M ajor seventh higher


## Tempo and Style

29. Throughout your musical training, you will have to recognize and understand new Italian words that you will frequently find in musical pieces. These terms are the composer's way of expressing the interpretation of the musical piece. C ertain words correspond to tempo, variation of tempo, and style, etc.
30. The following are words that you might find in a musical piece at your level.

## Variation in tempo

## Italian

come prima
l'istesso tempo
rubato or tempo rubato

## English

as at first
the same time
robbed time (taking a portion of time
from one note and giving it to another)
(at the discretion of the musical director)

## Style

Italian
brillante
cantabile
con brio
con espressione
dolce
grave
grazioso

## English

glittering, sparkling
in a singing style
with vigour, spirit
with expression
sweetly
slow and solemn
gracefully

Adverbs used in conjunction with other words

Italian
sempre
quasi

English
always
as if, almost
31. Similar to the English language, music is composed around phrases. A cadence represents the punctuation of the musical phrase being it a comma or a period.
32. A CAD EN CE is a two-chord ending phrase. The second of these chords is nearly always on the accented beat.
33. There are two categories of cadences that may be classified as "final" and "nonfinal". The two types of "Final" cadences, which may be found at the end of a sentence or at the end of a piece of music, are PERFECT AND PLAGAL. H ere in Level Four, you will simply study the different types. In Level Five, you will learn how to write the different cadences.

Note: Take note on how the notes are placed on the staff. The bass note is usually written in the bass clef and the other notes of the chord are usually written in the treble clef.
34. The PERFECT CADEN CE is the most common of all cadences. It is sometimes called an authentic cadence. It is a conclusive cadence because it gives a strong impression that the musical piece is ended. It consists of the D O M IN AN T chord, followed by theTON IC chord (V-I). In certain situations, this cadence can also be called an imperfect cadence.

35. The PLAGAL CADENCE is the other kind of "final" cadence. It consists of the Subdominant chord followed by the Tonic chord (IV-I). It is sometimes referred to as the "church" cadence because one can recognize it when they hear AM EN .

36. The IM PERFECT CADENCE/H ALF CADENCE is a "non-final" cadence that occurs in the middle of a piece but not at the end. It ends on the D ominant chord indicating a continuation in the musical piece. It gives the strong impression that the music is not ended. The two chords that create this cadence can be I-V, IV-V, II-V, etc.

37. Finally, the DECEPTIVE CAD ENCE is equivalent to the ":" of the English language. It consists of the D ominant chord followed by the Sub-M ediant chord (V-VI). It is called deceptive because the listener is wanting for the final tonic after the dominant, but instead the musical phrase continues. This is also considered a "non-final" cadence.

38. To identify a cadence, it is important to clearly know each chord in its key context. The root of the chord (found at the bass clef) will usually state the type of chord. O nce all the chords are indicated and characterized, then you can determine the cadence type.
A) Identify the following cadences and state the key below the staff:
1)

2)

3)

4)


$\qquad$
$\qquad$
7)

8)

39. There exists certain principals for writing music correctly. These conventions must be known and any errors on the score can therefore be detected. Here are some questions to ask yourself when studying a musical piece.
a) Is the clef in its correct position on the staff?
b) Do the sharps or flats in the key signature occur in the right order, and in their proper place?

c) Is the time signature right side up and AFTER the key signature?

d) Are there any bar lines omitted, or any extra ones put in?
e) Are there any double bar lines in the middle of the tune, which should be replaced by a single bar line?
f) Are the stems on all the notes facing in the right direction?
g) Is there a double bar line at the end?
h) D oes the piece start with an incomplete bar? If it does, does the last bar contain the fraction of time necessary to complete it?

i) Are there any tied notes which a single note of equal time value could correctly replace?

j) Is the tie of the triplet joined at the stems or the heads?

k) Are the dynamics written under the staff?
I) Are the tempo words written above the staff (allegro, adagio)?
m) Are the articulations written in the opposite direction of the stems?
n) Are the notes and rests correctly grouped and conforming with the rules established? Is the separation of each beat, especially that of the second and third beat, clearly defined?


Incorrect
C orrect


## Exception


o) Are there any slurs or ties joining the stems of the notes instead of the heads?

p) Are there any accidentals (or enharmonic changes) that do not logically fit?

D major Incorrect Correct

A) Rewrite the following passages correctly.*

$\qquad$
2)


$\qquad$ $\overline{\overline{\overline{\overline{\bar{Z}}}}}$
4) $\operatorname{Gog\% }^{\text {All }}$ Gretto
$\qquad$
A) Place the bar lines at the appropriate place:


B) State the key of these musical examples:

C) $\quad N$ ame the following melodic intervals:

D) Write the harmonic intervals above the given note:

minor 3rd minor 7th minor 6th minor 6th perfect 5th minor 3rd dim 5th


## REVIEW EXAM - Level Four

E) How do you build a major chord? $\qquad$
$\qquad$
F) How do you build a minor chord? $\qquad$
$\qquad$
G) W hat is a diminished chord? $\qquad$
$\qquad$
H) $\quad$ N ame and identify the following chords:

I) Complete the following chords:

J) To which keys can the following chords belong to. State their degrees:
a) F minor $=$ $\qquad$ _-_-_-_-_- -_-_-_-_-_-_
b) E major = $\qquad$ _-_-_-_-_-_-_-_-_-_-
c) B minor $=$ $\qquad$ _-_-_-_-_-_-_-_-_-_-_
d) $\mathrm{E}^{\text {b }}$ major $=$ $\qquad$
$\qquad$
$\qquad$
e) $\mathrm{C} \#$ dim. $=$ $\qquad$
$\qquad$

f) $A \cdot$ major $=$ $\qquad$
$\qquad$
$\qquad$
f) $\qquad$
g) G dim. = $\qquad$

h) $D \cdot$ major $=$ $\qquad$
$\qquad$
$\qquad$

## REVIEW EXAM - Level Four

K) Transpose this melody in the given intervals:


Perfect 5th higher


M ajor 3rd higher


M inor 6th higher


M ajor 2nd higher

L) Identify the following cadences. Write the key under the staff.


Notes

## Level 5

## The C Clef

1. There used to be many other clefs before the Treble and Bass clefs. O nly one of these other clefs now remains. It is called the C C lef and it fixes the place of the middle C. This clef used to be called UT. When it is placed on the third line, it is called the Alto C lef and is used in music written for viola and alto trombone.
2. When it is placed on the fourth line, it is called theTenor Clef. It is used in music written for the tenor trombone, and cello. Even if you do not play either of these instruments, it is important to know how to read in the C clef.
3. The clef of $C$ fixes the place of middle $C$ on the piano:

Alto Clef

4. This illustration shows the relative position of the three clefs mentioned on the staff.

5. The most common C clef is found on the third line. The other clefs are less used but not obsolete.

Tenor Clef

A) $\quad N$ ame the following notes:

B) Place the notes on the staff ( $L=$ line and $S=$ space $)$ :

6. As mentioned in the previous levels, there exists two categories of intervals:

The intervals are:

## PERFECT

Unison
Fourth (4th)
Fifth (5th)
O ctave (8ve)

MAJOR or MINOR
Second (2nd)
Third (3rd)
Sixth (6th)
Seventh (7th)
7. Up to now, you have learned how to distinguish intervals as perfect, major or minor. N ow you are ready to learn how to distinguish diminished or augmented intervals.
8. A diminished interval is one semitone smaller than a minor interval, which makes it two semitones smaller than a major interval.
9. An augmented interval is one semitone larger than a major interval, therefore, one tone larger than a minor interval.
10. You can therefore state that, by starting with a diminished interval and raising it by one semitone at a time, you will end at a augmented interval.

The spectrum of intervals is:
DIMINISHED - MINOR - MAJOR - AUGMENTED
11. The following are examples indicating the differences between all the intervals mentioned: diminished, minor, major, and augmented.


Dim 7th Min 7th Maj 7th Aug 7th Dim 7th Min 7th Maj 7th Aug 7th
12. It will happen that the diminished or augmented interval will contain a double flat or a double sharp. It is important that you keep these accidentals and not change them into enharmonic notes. By changing the note, you alter the interval. For example, the diminished 7th of $F$ is Ebb. If you change the Ebb to $D$, you have just altered the interval to a perfect 6th, a completely different interval.

Incorrect to change like this.

A) $\quad \mathrm{N}$ ame the following intervals:



22 $\qquad$ 23 _----
24 -----
25 $\qquad$ 26 $\qquad$ 27 $\qquad$ 28 $\qquad$
B) Complete the following intervals:


## Diminished or Augmented Chords

14. As studied in Level Four, a diminished chord is a chord composed of a minor third and a diminished fifth above the root.


In this example, the four chords all have a minor third and a diminished fifth. Therefore, you call these chords "diminished chords".
15. An augmented chord is a chord composed of a major third and an augmented fifth above the root.


In this example, the four chords are all composed with a major third and an augmented fifth. Therefore, you call these chords "augmented chords".

Note: As mentioned in Level Four, a diminished chord is found on the 7th degree of a major scale, and on the 2nd or 7th degree of a harmonic minor scale. An augmented chord would be found on the 3rd of a harmonic minor scale.
16. A chord is written with the root at the base, followed by the third and finally the fifth. The chord is in root position.

Root Position


E major
17. The same chord can be placed differently. A triad has two IN VERSIONS. The first inversion has the third of the chord as the bottom note. The second inversion has the fifth of the chord as the bottom note.


The example above shows the construction of the inverted chords.

Note: The position of the notes has little importance except the one at the base because it indicates the existence of an inversion. The first three examples (below) are all chords of Emajor 1st inversion because the base note is always G;, third of the chord.

18. To identify a triad, you must first put it in root position. O nce this is done, you can tell what kind of chord it is and in which position it is in.

If you take this inverted chord
and place it in its root position,

you can name the chord, the chord of C major.

ATTENTION: Many people have difficulty differentiating between the root, the bass note, and the tonic. The Root is always the lowest note of the triad in its natural state. The bass note is the lowest note of the chord, whether it is in root position or in an inverted position. The tonic is the name given to the first degree of a scale. The root is not necessarily the tonic of the scale because you find chords on all the degrees of the scale.

KEY


In the above example, the first chord demonstrates that the tonic is C ( C major), the root of the chord is D (chord of D, F, A), and the bass note is A ( 2nd inversion). In the second chord, the tonic is D ( D major), the root is D (chord of $D, F \#, A$ ), and the bass note is $F$ (1st inversion). In the last chord, the tonic is E ( E major), the root is $G \#,(G \#, B, D$ ) and the bass note is also $G \#$ (root position).
19. The dominant chord is only found on the 5th degree of a scale.

Here is the dominant of $C$ major:

20. TheDOMINANT SEVENTH chord is a four-note chord containing the dominant major triad and the interval of a minor seventh above the root.

Here is the dominant seventh chord of C major:

21. As for the three note chord, the dominant seventh chord can also be inverted. Since there are four notes, there are three inversions. The seventh degree at the bass creates the 3rd inversion.

H ere are the possible inversions:

22. To recognize the dominant seventh chord, you must place the chord in its root position. O ne way to write or recognize dominant seventh chords is by V7.


The name of this chord is F7, 3rd inversion. The 7 is named after the 7th degree.

Note: There are many ways in which you can identify the inversions of three note and fournote chords. Should you decide to further your musical education, you will encounter all the various ways of naming chords in different styles (classical, jazz, etc.)
23. Not every four-note chord is a dominant seventh chord. The structure of the dominant seventh has to be root, major third, and perfect fifth, and minor seventh. Anything else is something different.

Dominant Seventh Chords


4-note chords

A) Identify the following chords and their inversions:

B) $\quad \mathrm{N}$ ame the following dominant seventh chords with their inversions. Some examples are not dominant seventh chords, but write the name of the chord as well. (e.g. of answer: V7 of F (C7) 2nd Inversion)

$\qquad$ 9 -_-_

10 _-_-_ 11 _-_-_ 12 $\qquad$ 13 $\qquad$ 14 $\qquad$
C) Complete the following chords with their inversions:


## Transposing a Melody

24. Up to this point, you have learned the different possibilities of transposing a melody: transposing by an octave or by changing keys. These techniques lead us to how to transpose between instruments.
25. Due to the different sizes and different mechanisms of each instrument, the $C$ that you know on the piano is not necessarily the same pitch for another instrument. Therefore, the musical notation for the instruments is not always indicated with the real pitch but a transposed pitch to accommodate the composition of logical fingerings.
26. If you refer to the table (to follow), you will notice the difference between the real pitch and the transposed pitch. The transposed pitch is what instrumentalists sees on their score. What comes out as sound are the notes you see in the column of the real pitch. W hy is this? Because instruments come in different sizes made with different material and made with a certain logical system for appropriate fingering.
27. After you understand the function of the table, you are now ready to transpose any melody from one instrument to another by using the step-by-step method learned in Level Four.
28. Let's transpose the following melody for the tenor saxophone by using the steps forementioned:

G Major

(real pitch)

Note: You can determine the pitch of an instrument by using a precise note which is considered the natural note of the instrument. For example, $B^{b}$ on the trumpet is played open (no pistons are down). This note therefore is a natural note for the trumpet. $C$ for the trumpet is a $B^{b}$ on the piano.

1) First, by looking at the table, the melody is written is the correct register of the instrument.
2) $\quad$ ext, you see that you have to raise the melody by a major ninth (perfect 8ve and a major 2 nd) to obtain the right pitches (sound).

A M ajor

(transposed melody)
3) Finally, you have to make sure that the melody is written in the proper range and proper clef so the instrumentalist can read the music. After transposing the melody by a major ninth, you can see that the tenor saxophone always reads in the treble clef so that the pitch desired (real pitch) is heard. T he tenor saxophone reads higher placed notes to achieve low-sounding notes.

Note: It is important to take note of all the instruments registers of real pitch and transposed pitch. This demonstrates to the musician the wide range of written notes and heard notes.
29. There exist other possible techniques of transposing between instruments. You might know one that is easier to use. H owever, whichever technique is used, do not short-change an interval change. For example, if you want to transpose a melody for an alto saxophone, you need to raise it by a major 6th. D o not take short cuts by transposing it a minor third lower because you will not be in the correct register. You will have to transpose it again an octave higher for the transposition to be correct.


## Transposition

Raise the real pitch by a perfect octave.

No transposition needed.

No transposition needed.

Raise the real pitch by a major second.

Raise the real pitch by a major ninth (perfect 8ve + major 2nd).

Raise the real pitch by a major second.

Raise the real pitch by a major sixth.

Raise the real pitch by a major ninth (perfect 8ve + major 2nd).

Raise the real pitch by a major thirteenth (perfect 8ve + major 6th).

No transposition needed.

Raise the real pitch by a major second.

Raise the real pitch by a perfect fifth.
No transposition needed.
For the baritone treble clef, we use the same fingerings as for the trumpet, therefore we raise the real pitch by a major ninth (perfect 8ve + major 2nd).

No transposition needed.
A) Transpose the following melodies as requested:
1)


For the C larinet


For the Alto Saxophone

2)


For theTrumpet


For the French H orn

3)


For the Tenor Saxophone


For the Baritone Saxophone


For the Bass C larinet

29. As you saw in Level Four, a cadence is like a musical punctuation, like that of a comma or period in language. This punctuation allows for a pause or a breath mark that in turn gives the direction to the music. A cadence is a union of 2 chords that indicate musical phrase endings.
30. You have already studied the types of cadences. Now, you will learn how to write them.

Note: Before you learn to write the cadences, it is very important to identify them. If you have any difficulty, please refer to Level Four.
31. To write a cadence, you must follow the following steps:
a) state the key (write the key signature)
b) use the right chords of the cadence in reference with the key
c) place the lowest note (not necessarily the root) of the chord in the bass clef and then place the others on the treble clef
d) keep the common notes with the same voice
e) use a scale like pattern for each voice

Note: As two chords follow each other, it is important that each note of the first chord is followed by another note of the second chord. Each note is considered a voice which can be played by an instrument
32. Following are the cadences studied in Level Four with their definition and their characteristics. O bserve closely how these are written.

34. The PERFECT CAD EN CE is formed with the dominant chord followed by the tonic chord (V-I). Both chords are in root position (no inversion) and the root is written in the bass clef.

35. Once one of the two chords is in an inverted position, (usually only in 1st inversion), the cadence is then called an IM PERFECT CAD EN CE. This cadence, however, still is formed as V-I.

36. The PLAGAL CADEN CE is formed with the sub-dominant chord followed by the tonic chord (IV-I). The chords are usually in root position.

37. The dominant cadence, called IM PERFECT/H ALF CLOSE CADENCE, is formed with these following chords: I-V, IV-V, II-V, etc. All these chords are usually found in root position.

38. Finally, the D ECEPTIVE CAD ENCE is formed with the dominant chord followed by the sub-mediant chord (V-VI). The chords are usually found in root position.

A) Complete the following cadences:


H alf C adence


Perfect Cadence


Plagal Cadence


Perfect Cadence


[^0]

D eceptive C adence


Imperfect Cadence


D eceptive C adence


Plagal C adence


Imperfect Cadence
39. Short Score is also referred to as a compressed, condensed or close score. In vocal music, there are two ways in which the notes can be presented. Vocal music is written for a combination of voices, usually four (soprano, alto, tenor and bass) but can be written for more.
40. The soprano and alto parts are written in the treble clef, while the tenor and bass parts are written in the bass clef. The stems for soprano and tenor go up and the stems for the alto and bass go down.

This example is written in short or close score:

41. O pen Score refers to a score where each of the four voices is written on its own staff. The old form has each voice written in its own clef (the alto and tenor clef using the $C$ clefs).

This is the same passage written in vocal score with C clefs.


H ere is the same passage written in modern vocal score.


M usic written for String Q uartet also has four staves. Instrumentation is as follows: first violin, second violin, viola and cello.

Note: The viola is written in the Alto clef.

Here is, again, the same passage written in string quartet score.

A) Write the following passage in open score for string quartet.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ $\overline{\overline{\overline{\bar{I}}}}$


## EXERCISES

B) Write the following passage in short (condensed) score.

$\qquad$
A) Identify the following notes:

B) Find the following notes on the staff: ( $\mathrm{L}=$ line and $\mathrm{S}=$ space $)$.

$G(L) G(S) E(L) D(S) F(S) E(S) \quad C(L) A(L) \quad A(S) \quad F(L) \quad D(S) \quad B(S)$
C) Identify the following intervals:


## REVIEW EXAM - Level Five

D) Complete the following intervals by adding the upper note:

E) Complete the following intervals by adding the lower note:

F) $\quad \mathrm{N}$ ame the following chords and state their inversion (e.g. F7 1st inv.) $N$ ot all the examples are dominant seventh chords (V7).

G) Complete the following chords by respecting the correct inversion.

G) (continued)

H) Transpose the following melodies for the instruments asked:


For the alto saxophone:


For the French horn:


For the trumpet:

|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |



For the bass clarinet:


For the baritone saxophone:

I) Write out the following cadences:


Perfect Cadence


D eceptive C adence


Perfect Cadence


Plagal C adence


Imperfect/ H alf Close C adence


Imperfect/ H alf Close C adence

## REVIEW EXAM - Level Five

J) Write the following in modern vocal score.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

| Italian/Italien | English/Anglais |
| :---: | :---: |
| a cappella | in the chapel style, which in choral singing has come to mean unaccompanied (no instruments) |
| a tempo | resume original speed |
| accent | an emphasis on a particular note, giving regular or irregular rhythmic pattern |
| accidental | indicates momentary departure from the key signature by raising or lowering of a note by means of a sharp, flat or natural |
| adagio | at ease, slow (not as slow as largo, but slower than andante) |
| alla breve | indicated $2 / 2$ time when in a measure of 4 beats, the tempo is so fast that the measure may be considered to have 2 beats |
| allegro | merry, i.e., quick, lively, bright |
| amabile | lovable |
| amoroso | loving, affectionate |
| anacrusis | an unstressed note or group of notes at the beginning of a musical phrase |
| andante | moving along, flowing |
| animato | animating |
| appassionata | impassioned, passionately |

## Français/French

terme d'abord religieux qui, en chant choral, en est venu à signifier "chanter sans accompagnement" (sans instrument)
revenir à la vitesse originale
une intensification conférée à un son, pour donner un relief rythmique régulier ou irrégulier
indique un changement temporaire de l'armure originale en haussant ou baissant une note à l'aide d'un dièse, d'un bémol ou d'un bécarre.
à l'aise, lentement (pas aussi lent que largo, mais plus lent qu'andante)
on écrit 2/2 quand, dans une mesure de 4 temps, le tempo est si rapide que la mesure peut être considérée comme si elle avait 2 temps
joyeux, c.-à-d. rapide, vivant, vif
aimable
amoureusement
une note ou un groupe de notes sans accent situées au début d'une phrase musicale
allant, gracieux
animé
de façon passionnée, passionément

## Symbol/Symbole


\# b $\quad$ a

| Italian/Italien | English/Anglais | Français/French | Symbol/Symbole |
| :---: | :---: | :---: | :---: |
| arpeggio | a chord 'spread', i.e., the notes heard one after the other from the bottom up, or from the top downwards | exécution successive de chaque note d'un accord joué du grave à I'aigu ou vice versa |  |
| brace / <br> accolade | perpendicular line, with bracket, joining the staves in scores, and indicating that music on these staves should be played simultaneously | ligne perpendiculaire unissant les portées dans les partitions de direction, et indiquant que les notes sur ces portées doivent être jouées simultanément | ( |
| brillante | glittering, sparkling | de façon brillante, étincellante |  |
| brio | vigour, spirit, fire | vigueur, esprit, vivacité |  |
| calando | lowering, diminuendo | en diminuant |  |
| cantabile | singable, singingly, i.e., with the melody smoothly performed, and well brought out | chantant (en exécutant la mélodie d'une manière douce et en la faisant ressortir) |  |
| coda | tail, original section of a movement added at the end | finale, nouvelle section d'un mouvement rajoutéa à la fin |  |
| come prima | as at first | comme en premier |  |
| con delicatezza | with delicacy | avec délicatesse |  |
| con dolore | with sorrow | avec douleur |  |
| con espressione | with expression | avec expression |  |
| con fuoco | with a combination of forces and speed; fire | avec feu, passion |  |
| con moto | with motion | avec animation ou avec une certaine rapidité |  |
| con sordini | with mute | avec une sourdine (pour les cordes) |  |
| con spirito | with spirit | avec esprit |  |
| con tenerezza | with tenderness | avec tendresse |  |


| Italian/ltalien | English/Anglais | Français/French | Symbol/Symbole |
| :---: | :---: | :---: | :---: |
| crescendo | gradually increase in loudness | de plus en plus fort | cres |
| da capo | from the beginning | depuis le début | D.C. |
| dal segno | from the sign; return to the sign | depuis le signe | D.S. |
| decrescendo | gradually getting softer | de plus en plus doux | decres |
| delicatamente | delicately | délicatement |  |
| diminuendo | gradually getting quieter | en diminuant graduellement le son | dim |
| dolce | sweetly | doucement |  |
| doppio movimento | double speed, twice the preceding speed | deux fois plus vite |  |
| energico | energetic | énergique |  |
| espressivo | with sorrow | avec douleur |  |
| fine | end | fin |  |
| forte | strong. loud | fort | f |
| fortepiano | loud then immediately soft | fort et doux immédiatement après | fp |
| fortissimo | very loud | très fort | ff |
| furioso | furious | furieusement |  |
| gracioso | graciously | gracieusement |  |
| grave | slow and solemn | extrêmement lent et solennel |  |
| innocente | innocently | de façon innocente |  |
| l'istesso tempo | the same speed | le même tempo |  |
| larcrimoso | tearful | larmoyant / éploré |  |
| larghetto | slow and dignified, but less so than largo | un peu moins lent que largo |  |



| Italian/Italien | English/Anglais | Français/French | Symbol/Symbole |
| :---: | :---: | :---: | :---: |
| largo | slow and dignified | lent et ample |  |
| legato | bound together; so that there is no perceptible pause between notes | en liant les sons, de manière à ce que l'on ne perçoive pas de silence entre chacun |  |
| leggiero | light | légèrement |  |
| lento | slow | lent |  |
| maestoso | majestically, dignified | majestueux, avec dignité |  |
| malinconico | melancholy | mélancolique |  |
| marcato | marking; marked, i.e., each note emphasized | bien marqué, accentué |  |
| meno mosso | less moved, i.e., slower | moins vite, plus lent |  |
| mesto | mournful, sad | triste, lugubre |  |
| mezza voce | half voice | à demi voix | mez. v. |
| mezzo forte | half loud | moyennement fort | mf |
| mezzo piano | half soft | moyennement doux | mp |
| moderato | moderate | modéré |  |
| molto | much, very | très, beaucoup |  |
| morendo | die away gradually | en mourrant |  |
| moto piu | with more motion | plus de mouvement |  |
| mysterioso | mysteriously | mystérieux |  |
| nobile | noble, grand | noble, grandiose |  |
| non molto | not much | pas beaucoup |  |
| non ritenuto | not held back | sans retenir |  |


| Italian/Italien | English/Anglais | Français/French | Symbol/Symbole |
| :---: | :---: | :---: | :---: |
| non tanto | not so much | pas autant |  |
| non troppo | not too much | pas trop |  |
| parlante | speaking; in instrumental music it calls for an expressive freedom greater than is implied by cantabile | dans un style parlé, récitatif |  |
| patetico | pathetic | pathétique |  |
| perdendosi | gradually dying away | en laissant mourir le son et rythme | perd |
| pianissimo | very soft | très doux | pp |
| piano | soft | doux | p |
| piu | more | plus |  |
| pizzicato | strings to be plucked | cordes pincées | pizz |
| poco | a little, rather | peu |  |
| poco a poco | little by little | peu à peu |  |
| pomposo | pompous | pompeux |  |
| prestissimo | very quick | très pressé |  |
| presto | quick | vivement, rapidement |  |
| piu mosso | more moved | plus de movement |  |
| quasi | as if, almost | presque, à la façon de |  |
| rallentendo | slowing down, gradually | en ralentissant |  |
| religioso | religiously | religieusement |  |
| rinforzando | reinforcing | en renforçant le son |  |
| ritardando | holding back, gradually | en retardant | rit |


| Italian/talien | English/Anglais <br> held back, not as gradually as <br> ritardando | Français/French |
| :--- | :--- | :--- |
| ritenuto retenant |  |  |$\quad$ Symbol/Symbole


| Italian/Italien | English/Anglais | Français/French | Symbol/Symbole |
| :--- | :--- | :--- | :--- |
| tenuto | hold note to its full value | soutenu, tenu |  |
| tranquillo | tranquil | tranquille |  |
| tristamente | sadly | tristement |  |
| troppo | too much | trop | poco f |
| tutti | everybody | tous, l'ensemble | poco $p$ |
| un poco forte | a little loud | un peu fort |  |
| un poco piano | a little soft | un peu doux |  |
| un poco piu | a little more | un peu plus |  |
| veloce | with velocity | avec velocité, rapidement |  |
| vivace | vivacious; fast and lively | vivant, pressé |  |


[^0]:    H alf C adence

