


## Thoughts on Mufick: By Dr. Watts.

THE Art of SINGING. is a moit charming Gift of the God of Nature, and defigned for the Solace of our Sorrows and the Improvement of oir Joys. Thofe young Perfons who are bleft with a mufical Ear and: Voice, fhould have fome Inftruction beftowed on them, that they may acio quire this delightful Skill. I am forry that the greateft Part of our Sangs, whereby young Gentlemen and Ladies are taught to practice this Arr, are of the amorous Kind, and fome of them polluted to. Will no: happy Genius lend a helping Hand to refcue Mufick from all its Deflements; and to furnifh the Tongue with nobler and more refined Melody? But Sitiaing muft not be named alonie.

Various Harmony both of the Wind and String, were once in USi in Divine Worhip, and that by Divine Appointment. It is certain then that the Ule of thefe Intruments in common Life is no unlawful Practice, tho' the New-Tellament has not orduined the Ufe of them in evangelical Worftip.

But if the Voice be happily capable of this Art, it is preferable to all Inftruments fafhioned and compofed by Man: This is an Organ formed and tuned by God himfelf. It is mof eafly kept in Exercife, the Skill is retainaed longeft, and the Pleafure, tranfcends all the Reft. Where an Ode of noble and feraphick Compofure is fet throughout to Mufick, and fung by an artful Voice, while the Spirit at the fame Time enjoys a devout Temper, the Joys of the Soul and the Senfe are united, and it approaches to the frriptural Ideas of the celeftial State.

Happy the Youth who has a bright and harmonious Conftitution, with a pious Turn of Soul, a Cbearful Spirit, and a Relifh of facred Melody ! He takes a frequent Flight above this lower World, beyond the Regions of Senfe and Time; he joins the Confort of the heavenly Inhabitants and feems to anticipate the Bufinefs and the Bleffednefs of Eternity.


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BOOK I.

## B $\quad 0 \quad 0 \quad \mathrm{~K} \quad \mathrm{I}$.

Containing the Grounds and Ruiks of MUSICK explained ; or an Intraduation to the Art of Singing by Note, taken chiefly from Thomas: Walter, M. A.

Firf. Tame. Thus when a tune is fung by another upon a key too low for the compals of my voice, if I would fing with the perfon, it mu? be all the way eight notes above him. A woman naturally frikes eight notes above the grum and low founding voice of a man, and it makes no more difference than the finging of two perfons upon a unifon or a pitch. And here let. it be obferved; that the height of a note and the ftrength of finging it, are two different things. Two notes of equal height may be founded fo as that one fhall be heard much father than the ether.

Second. The eight notes, for the fake of the learners, are called by the names, Fa, Sol. $L a, M$, where it muft be obferved, that from $N i$ to $F a$, as alfo from $L_{a}$ to $F a$, is but a Semitone or half note; and from Fa to Sot, from Sol to La ánd from La to $d$, is, is a tone, or whole nots. That is, in rifine from $M i$ to $\neq A$, or frem Lat to $F a$, I don't raife my voice,
voice but half as much as in rifing from Fa to Sol, from Sol to $L_{a}$, and from $L_{a}$ to Mi. On the other hand, when. I fall from $F a$ to $M i$, or $F_{a}$ to: $L a$, inmediately below it, I fall but half as much as I do from $M$ i. to La , or La to Sol, Sol to Fa , atd this you will perceive with your ear. when your finging mafter fhall have learnt you to raife and tall your notes.

Third. The queftion then will be, how fhall I know which is La Fa, or Mi Fa; and which is Fa Sol , and Sol La, \&ic. that I may give the former the true found of an half note, and the latter the found of an whole note; for this end was the gamut conftructed and made, where there are feven letters of the alphabet made ufe of, to defign out the feven notes, in order to the knowledge of their names, $F_{a}$, Sol, La, Mi, and by confequence the giving them their true and proper found.

1 frall here prefent to the reader's view a gamut, containing all the ufual keys of mufick, in all the placings and removes of the notes Fa Sol La MMi, and then explain it, which when we have finihed, and it is well ftudied by the learner, it will be an oafy matter by the application of the gamut to any tune, to name the notes thereof. .


Fourth. We figall now go on to explain the gamut or fale of mufick. And here youtmay obferve uporr the gamut or icale of mufick, two, marks, one over againf the uppermoft Gbut one, (mark'd thus gss) which is called the G jol re ut, cliff, from the place it fands ; the other mark is over againft the lowernoft $F$ but one; mark'd thus " 0 :) which is called the $F$ fa, ruto cliff, from its fation on the garnut. The firft of thete is placed, upon the trebles or upper parts, and wherever it fands upon your tune, call the line it fands. upon G. Then you are to call the lines and spaces above in order, $A, B, C$, \&u. Call the lines and. \{paces belowithis cliff, $F, E, D, C, B$, A, G, \&ic.

Fifth. The other is the cliff ufed upon the bafs, or lower parts of a tune, and you are to call the line it ftands upon F, then the lines and-fpaces above, $G, A, B, \& c$. Thoie defcending are E, D, C, B, A, G, \&c. juft in the order you find them upon the gamut. Take nctice that any tune is only fo many lines 'and fpaces (upon which notes may be placed.) taken from the gamut ; and that each line and face currefponds with the line and fpace anfwering it on the gamut; and the fame letter and name is underfood to be thereupon, which is in the fame places of the gamut. We will then take the firft line of Windfor treble. See the examples, page firft of the copper-plate, where obferve, every line and fpace is mark'd with the proper letters at the beginning of the tune, Upon the loweft line but one ftands the G cliff, which
TO THE GROUNDSOMMUSICK.
$E$ is fated, from $E$ to $F$ is an whole note, viz. $F a$, Sol. So as to the fharps; from E to F in the frt column, is but half a note, that is, La Fa ; but in column fourth, where F is harped, iron E to $F$ is an whole note, that is, $L a_{2} M i$; and fo you may find it in the reft of the columns.

This gives the reafon of the removes of the $M i$, viz. the nitaing the femitones whole tones, or the half notes whole notes.

For the federal removes of Mi , take this frost SCHEME.

And when you have found Nisi in any of the fe variations, the notes above are Fa , Sol, La, Fa, sic. and below, La, Sol, Fa, La, Exc. as before.

The examples will flew us the feveral removes of $M i$; and here you may compare every example with the gamut, and you will find it answering note for note: only you molt observe the diftinct column of the gamut. You will find the letters, the notes, the place of the $M i$ to correspond exactly. Compare the frt column of the gamut, with the fir example, where $M i$ is in $B$ : the fecond column with the fecund example, where $B$ is flat, and $M i$ is in $E$, and fo of the reft. The tune will

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anfwer with the gamut in all points. See the examples, on page frrt of the copperplate.
Eighth. Tunes are faid to be upon a flat or fharp key. To know whether your tune be upon a fiat or fharp key, this is the general rule, if the two notes above; the laft note of your tune be whole notes, it is upon a tharp key; but if the two notes above, be one an whole note, the other an half note, then it is a flat key. For infance, in Canterbury tune, the laft note is upon $G$, and is caHled. Fa; the notes above muft be Sol, La, which are two whole notes; fo that from $F a$, to $L a$, is a greater third. Again, in Windfor tune the laft note is upon $A$, and is called $L a$; the notes above are $M i, F a$; which makes it a leffer third. The former confifts of two whole notes; the otler of an whole note and an half note. When you have learned to raife and fall your notes, the difference of the found will be perceptible by the ear. From this difference of the greater and lefier third it follows, that turies upon fharp keys are chearful and forightlys and therefore more fuitable to pfalms of praife and thankgiving. And the flat keys being more grave and mournful, are therefore beft fet and fung to penitential pfalms, and melancholy airs.

Ninati. The notes in mufick do come under a further confideration, and that is the:- length, or flhurtnefs in timing of them: they are known by the names of a femioreve, minim, crotchets, quater, femiquaver. As for their abfolute length
TOTHEGROUNDSOF MUSICK.
and meafures of time in founding, a femibreve is founded in the time that a man may let fall his hand flowly, and raife it again; letting his hand fall at the firft founding, and taking it up when it is hali done, which lifting up of the hand finithes it.

As for their comparative length, one femibreve contains two minims; one minim two crotchets, \&cc. So that if a femibreve is founded while a main lets fall his hand and raifes it again, by confequence a minim is founded while the hand is falling, and another while it is rifing. And two crotchets while it is falling, and two winile it is rifing, \&c
From this different length of notes arifes what we call the time of a tune, which is two fold, either common time, or triple time. Common time is meafured by eveli numbers, as 2,4 , icc. : each bar including'fuch a quantity of notes, as wills amount to one femibreve (which is the meafure note, and guideth all the reft) it being called a whole time, or the time note.

Tripla time is meafured by odd numbers, as $3,6,9, \& c$. each bar including either 3 minims, 3 crotchets, or 3 quavers, and muft be founded ore third fwifter than common time.

> For the Mufical Characters fee BOOK II.

The laft Thing we have to direct of, is the doctrine of concords and difcord's among the feven notes, for there are no more in nature, every eighth being

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It fame, (only on a higher key, a third leffer and greater, a fifth leffer and greater, a fixth lefier and greater, are concords: that is, if I found a third, or fifter, or fixth above another man, my voice founds harmonicufly with his. A fecond and feventh are difcords; a fourth is by fome accounted a chord, by others a difcord: but I am inclined to thin the former. Note alro, that if any note is a chord or difcord to another, the octaves or eighths of the founds are fo too. You will find in the following tunes, many inftances, where the bafs is more than eight notes below the tenor anfwering to it: and when it is fo, luch twis notes are a double concord to one another, and are the fame in nature as a fingle concord. Thus an eightin the fame with a unifon, a ninth with a fecond, a tenth with a third, dic.

The treble bafs and medius, do not always berin upon a pitch, fometimes three, fometimes eight notes, sic. diftance from one another. You may find their diftance by obferving the letters on which the firf note of each fands. Thus if the firft note of the bafs ftands on A, and the treble begins on C, they are a third afunder, the bafs muft be begun a third below.

- Finally, obferve that difcords are fometimes made ufe of in mufick, to prepare the ear by their harfhnefs, to relifh better the fweennefs of a following concord. Thus oftentimes, there will be an imperfect concord, then a difcord which is fill more grating; which ferves to keep the auditor in a longing fufe pence, till all the parts fall into a perfect fet of chords, which finifnes the harmony, and Itrangely charms the hearer.


## TOTHE GROUNDS O.FMUSICK.

In the fcale of mufick, there are three marks or chazact;rs, called cliffs; one of which is or ought to be placed at the beginning of every flanza; or line of mufick'; in order to fhew you what part it is, whether treble, tenor, or baifs, \&c, which characters give to the line whereon they are fixed the names of either $\mathrm{G}, \mathrm{C}$, or F ; whereby you may find the names of all the reft in their proper order, both above and below it; which mark or cliff is like a key or inlet to the fcale of mufick; for every change of cliff, changeth the whole order of the fcate, \&c:

1. The bafs, or fa ut cliff is generally fet on the fecond line from the top; it gives to its place the name of $F$, and when fung is, called Fa , made thus $\mathrm{O}^{\circ}$
2. The C-fol fa ut cliff is mofly ufed for the counter-ienor or inner parts, and may be fet un any of the four lowefl lines': 'it gives to its place the name C; and when fung is called Fa, made thus $\ddagger \ddagger$
3. The $G$ fol re ut cliff, may be ufed for either treble or teror, or any inner parts ; and is fet on the fecond line from the bottom : it gives to its place the name $G$, and when fung, called Sol, made thus gs.
N.B. That in the compals of every eight notes there are two of them called femi, or half tones; which are from Mi to Fa , and from La to Fa. Suppofe a whic-tone be an inch, the half-tone is but half an inch, which is a mathematical demonffration.
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## A NE W: INTRODUCTION <br> C. HAP TER I.

Of the names of the notes, and their. refs and use.

1) The fate of mufick comprehends the feveral forts of notes ufed in mufick, of whicis: I fall difcourfe and begin with.
1. The semibreve, whole length and proportion of time is as long as you may deifurely tell $1,2,3,4$, by the flow motion of the pendulum of a large chamber clock which beats feconds', it being the longest of any now in ufo, though formerly it was the fhorteft; it is the meafure note.
2. The minum is but half the length, of the femibreve, having a tail to it.
3. The crotchet is but half the length of the minum, having a black head.
4. The quiver is but half the length of the crotchet, having the tail turn'd up.
5. The femiquaver is but half the length of the quaver, being turn'd up with a double ftroke.

Reft are notes of filence, which fignifies that you muff reft or keep flense, fo long: as if you was founding one of the reflective notes. $\therefore$ Of other characters used in mufcek, and their ufo.

1. A flat is a mark of contraction, and caufeth any note it is fer before, that fifth a whole tone to rife but half a tone; I mean to flat or fink it half a tone lower than it was before; the fame as from Fa to Mi , or Fa to La . Alpo all flats that are placed at the beginning of the five fines, ferve to flat all fuck notes that

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Shall happen on that line or fpace through the whole ftrain, except any note fhall be contradicted by an accidental fharp or natural. Slats are alfo ufed to regulate the Mi , in tranfpofition of keys.
2. A fharp is a mark of extenfion, it being to raife or fhárp any note it is fet before, half a tone higher; the fame as from Mi to Fa , or La to Fa __Likewife ail Charps that are placed at the beginning of the five lines, ferve to fharp all fuch notes that fhall happen on that line or fpace, except any note be contradicted by an accidental flat or natural, which ferves only for that note. Sharps are alio ufed to regulate the Mi , in tranfpofition of keys.
3. A repeat is ufed to direct the performer, that fuch a part or frain muft be repeated over again from the note it is fet over, under, or after.
4. A Aur, is in form like a bow, drawn under or over the head of two or three, or more notes, when they are to be fung to one fyllable.
5. A fingle bar ferves to divide the time in mufick, accotding to the meafure note.
6. Double-bars ferve to divide many ftrains in mufick, as a period at the end of a fentence. But if they be dotted on each fide it fignifies that fuch a ftrain or part, muft be repeated over again. But when ufed in pfalm tunes, are fet only for the benefit of the fight, or that you may reft to breath, the time of two beats,

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7. A direct is placed at the end of a line to direct the performer to the place of the note in the next line.
8. A natural, is a mark of reftoration, which being fet before any note that was. made flat or fharp at the beginning, reftores it to its former natural tone, or as it was before thofe flats or fharps were fo placed.

A hake called the trillo is (or ought to be) fet over any note that is to be fhaked or graced: and is the principle grace ufed in mufick ; that is to move your voice diftinctly one note, the diftance of a whole note; firft move flow, then fafter by degrees ; and by obferving this method you may gain the perfection of it. The fhake may be ufed on all defcending prick'd notes, and always before a clofe; alfo on all defeending fharped notes, but none thorter than crotchets. Sometimes you will find crotchets or quavers tied together in threes with a figure of three over them; which threes, if crotchets, to be performed in the time of a minum; if quavers, to be performed in the time of a crotchet.
It is not to be imagined that any art or fcience, can ever fo perfectiy be learned without a compleat mafter or tutor, as it is with ; tho' many (by reading gond authors; and not tinse, with the (pirit of contraciction and feli concert,) have acquired great knowledge therein. The firt rule the perfor:ner is to berin with is the gamut, which he muft noe only learn to fay, but muft allo know well by heart, both lines and fpaces, learning both by letters, and by the vocal fyllables.
TO THE GROUNDSOF MUSICK.

Of Time and its various Moods; and how to beat them.

1. OF the meafure and proportion of common-time, and it's various moods: Common time is meafured by even numbers, as $2,4,8$, \&c. each bar including fuch a quantity of notes as will amount to one femibreve, (which is the maafure note, and guideth all the reft) it being called a whole time or the time note. But to give every note it's due meafure of time, you muft ufe a conftant motion with your hand or foot; once down and once up, in every bar ; ; which motion is called time and meafure. I told you betore that the time and meafure of the femibreve (which is the meafure note in common time) was folong as you may leifutely tell 1, 2. 3, 4. Therefore the motion of your hand or foot, is, to beat two with pour hand down and two up, in every bar ; fo that you are as long down as up; which fort of time is known by thefe feveral marks or moods' following. The furit mode or mark, is the adagio mood, which denotes a very flow movement; made thus; C. the fecond fort is the largomood, which is half as quick again. Thus made. $C$. the third fort is the allegro mood, which is as quick auain fo that you inay tell $1,2,3,4$, in every bar almoit as faft as the motion of a watch, made thus 0
2. Of the Meafure and Proportion of Tripla-time, in it's various Miods.

Tripla time is meafured by odd numberṣ, as $3,6,9$. \&c. each bar including either 3 minims; 3 crotchets, or 3 quavers; two of which muft be fung:

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or played with the hand or foot down, and one up; for that you are juft as long again down as up. The firf and generally the floweft mood in triplatime, is called fefquialtera proportion, being a triple meafure of three notes to two fuch notes in common time, and fang in the fame time; which is one fourth quicker in every bar. This mood is called 3 to 2, and includes three minims in a bar, which are performed in the fame time as two minnimes in common time: two beats down and one up, marked thus 3

The fecond fort of tripla-time is called. 3 from 4, each bar containing three crotchets or one pointed minim; 2 beats down and one up thus 3
and tho' the fe directions import, that your hand mut be always down at the firft note in every bar, it is now become a practice to beat every beat down; both in common time and in tripla time : But I think it is not very material how a peron beat, or what motion he uses, fo he keeps but a true movement, to anfwer both notes and reft: For unlefs a perfon can count his time in his thoughts, as he Sees it, it is impoffible either to beat or perform in contort.

CHAPTER IV.
Of the Several Keys in Mufick : And of Tranfofition of Keys.
IN mufick there are but two natural keys, viz. $C$ fact, the fharp and char-

ful key; and A re, the fiat and melancholy key; and that no tune can be performed on any other key but thefe-two, without the help of placing either flats or fharps at the beginning of the tune; which tranfpofes $\mathrm{B}-\mathrm{mi}$, the center or mafter note (together with all the reft in their order, both above and below it) to the fame in effect, as the two natural keys.

The key note is the laft in the bafs, by reafon it is the fundamental part of all others; which is taken from B-mi, the center note, which lies between both the key notes, the one flat, the other tharp;-which are fo called from their having their thirds, fixth, andfeventh major or minor above. And as the key note of every compofition is a certain principle and dominant toqne, fixed on to guide all other founds, in order above and below it ; even fo Mi governe, when Mi removes it's place, all other notes in their oider like fomapy attendants semove along with it.

## CHAPTERV:

## Of the eveveral concoress and difcords; bath perf fot and imperfect.:

THERE are but four concords in Mufick viz. the unifon, third, fith, and fuxth ; (their octaves or eights are alfo meant) the unifon is called a perfect cord; and commonly the nfth is fo called, but the fifth may be made imperfea, if, the, compofer pleafes. The third and fixth are called imperfect ; their founc's not being fo full, nor fo fueet as the perfect: but in four parts the fixih is ufed inftead of the firth, in fome certain places, when the fith is left out ; fo in effect there are but three concords-
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The meaning of the word imperfect, fignifies that it wants a femitone of its perfection, to what it does when it is perfect ; for a leffer, or imperfect, or minor third, includes but three half tones; but the greater, or perfect, or major third, includes four half tones, $\vartheta^{\circ} c$.

The difords are a fecond, a fourth and a feventh, and their oftaves; tho' fometimes the creater fourth comes very near to the found of an imperfect chord, it being the fame in satio as the minor fifth.
N. B. That if a voice or inftrument could reach ten thoufand octaves, they are all accounted as one in nature.

There are fome other things that occur in Vocal, and (efpecially) Inftrumental Mufic ; but as they do not concern this undertaking, I fhall take no notice of them. Thus I have gone through with what I think is neceffary to the underfanding of this book, and bave collected a number of the choiceft tunes from the moft approved authors; and have fet them down in a correct manner according to the rules of mufic, which I hope will be candidly received, and that all true lovers of Palmody will be encouraged in fome meafure hereby to the learning of this noble and delightful art.

Neubury-Port, May 15. 1764.
DANIEL BAYLEY.




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## RULES for Tuning the Voice.

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