

Grade 4

Improve your theory!

Paul Harris

Model answers

Welcome to Grade 4

Here's what you should know as you get going on this book. If there are any gaps, have a look at *Improve Your Theory! Grades 1, 2 and 3* and ask your teacher.

Tick all the things you know (but only if you really do!)

These notes and rests: 

And triplets, too ...

These time signatures: $\frac{2}{2}$ $\frac{2}{4}$ $\frac{3}{2}$ $\frac{3}{4}$ $\frac{3}{8}$ $\frac{4}{2}$ $\frac{4}{4}$ $\frac{6}{8}$ $\frac{9}{8}$ $\frac{12}{8}$

Grouping beats and up-beats in all the above time signatures

Treble and bass clefs

Bars, bar-lines, the staff and all notes on the staff

More than two ledger lines above and below the staff

Key signatures and accidentals (sharps, flats and naturals)

Constructing major, harmonic and melodic minor scales; tones and semitones

Octave transposition

C major; G, D, A, E majors (sharp keys); F, B \flat , E \flat and A \flat majors (flat ones)

A minor; E, B F \sharp , C \sharp minors (sharp keys); D, G, C and F minors (flat ones)

Melodic and harmonic intervals, tonic triads

Composing simple four-bar rhythms, phrase structure

A reasonable number of terms and signs and performance directions!

Put anything you're not sure about in this box and ask your teacher to fill in the gaps before you get going on Stage 1.

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A message from Paul Harris

Welcome to *Improve Your Theory! Grade 4*. I very much hope you'll enjoy working through this book and learning about the music that you play or sing. You'll learn about how music is written down and really get to *understand* your pieces and songs. Through knowing theory, you'll play, sing, sight-read and perhaps even make up your own music with much more accuracy and confidence. It will also improve your aural, scales and ability to play expressively. And you'll learn lots of interesting and fun facts about music along the way. Many people think that theory is dreary ... it really isn't!



Audio tracks for the Aural/listening activities are available to download from www.fabermusicstore.com/ImproveYourTheory4

✓ Answer sheets are available to download from www.fabermusicstore.com/ImproveYourTheory4

4 Rewrite this melody with the notes grouped correctly into \downarrow beats. The opening has been given.

Spiritoso

Spiritoso

5 Add the correct rests at the * to complete these rhythms.



i)

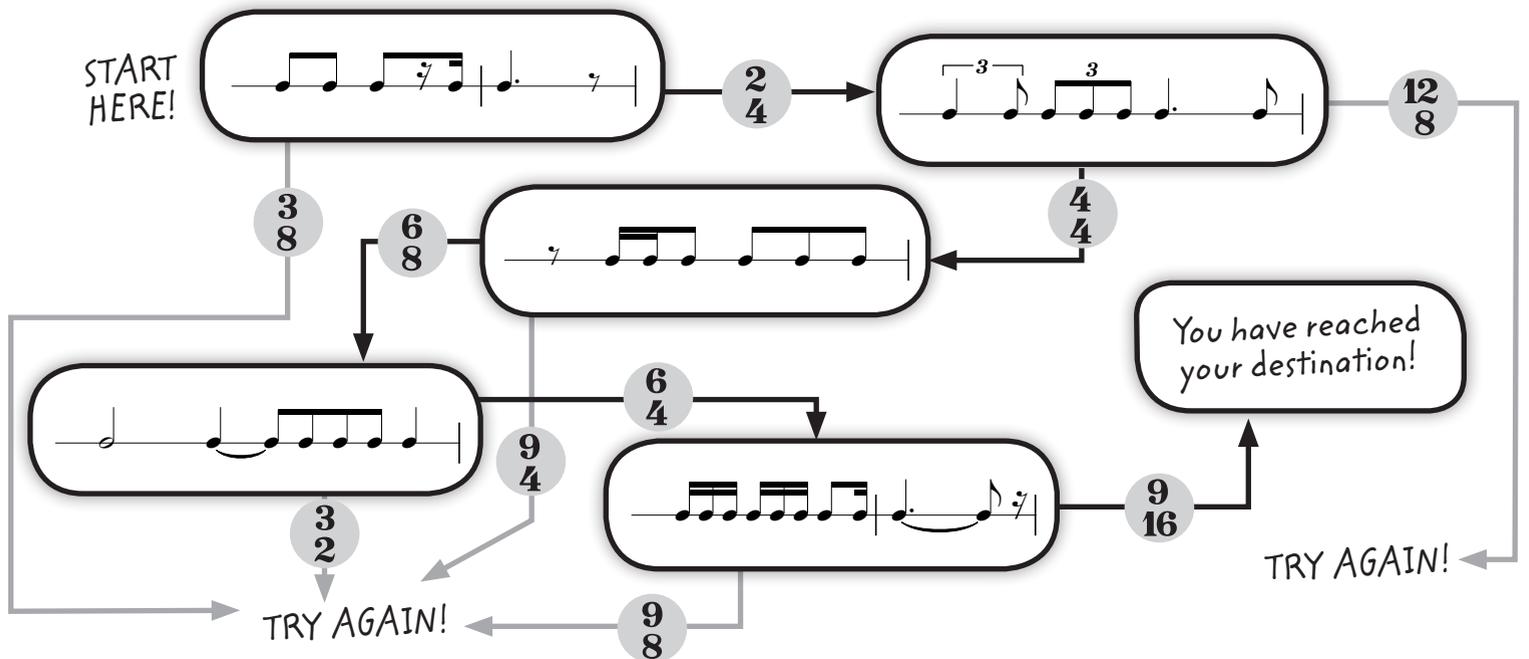
ii)

6 Add bar-lines to the following extracts.

i)

ii)

- 7 Travel through this musical maze, following the route of the correct time signatures, to reach the destination.



- 8 Have a look at this piece. Counting or tapping the pulse, clap the rhythm and then answer the questions below.

You never know what's coming around the corner

Andante

- Add the correct time signature at the start.
- Think about the character of the music and the tempo you would play it, then add an appropriate performance marking at the start. † possible answer
- Mark the phrases with a \lrcorner above the music.
- Which notes will probably sound like a bit of a surprise? Circle them in the music.
Try to play the piece (or get someone to play it for you) and see if you are right.
- Rewrite the first three bars in $\frac{4}{4}$ doubling all the note-values – the opening bar has been completed for you.



Making connections to your pieces

Choose a piece or song you are currently learning that uses interesting rhythms, and write out the first few bars on the staves below.

- What kind of time signature is used (e.g. 'compound duple time')? _____
Explain the top and bottom numbers. _____
- What is the key? _____
- In the workspace, write down all of the performance instructions you can find and describe their meaning.
- Rewrite the first two bars of your piece in the workspace, transposing either up or down by one octave and using the most appropriate clef.



Workspace



More connections

Tap the pulse and clap the rhythm of your tune, then make up your own tune to the rhythm.



Aural/listening

Listen to these four short pieces and decide on the time signature from the following:

$\frac{2}{4}$ $\frac{6}{8}$ $\frac{3}{4}$ $\frac{9}{8}$

1) $\frac{3}{4}$ 2) $\frac{9}{8}$ 3) $\frac{2}{4}$ 4) $\frac{6}{8}$

Theory box of fun



In his ground-breaking book *The Art of Strict Musical Composition* (1716), Johann Kirnberger wrote: ' $\frac{4}{4}$ time has a very emphatic and serious motion and is suited to stately choruses, fugues in church pieces, and pieces where pomp and gravity is required, whereas the character of $\frac{3}{4}$ appears to be gentle and noble. But $\frac{3}{8}$ has a liveliness that is somewhat frolicsome.' Do you agree with Johann?

Stage 2

**New note-values:
breves, double dots
and duplets**



Facts box

- A **breve** is a long note that lasts for two semibreves:

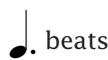


In the time signature of $\frac{4}{2}$, a breve lasts for a complete bar (i.e. for four d).

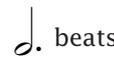
- **Double-dotted notes and rests** are so-called because they are followed by two dots. The second dot adds half again to the length of the first dot:



- **Duplets** occur in compound time, when the dotted beat, which is usually divided into three equal parts, is divided into two instead:



becomes



becomes



1 True or false?



true / false



true / false



true / false



true / false



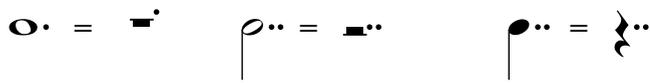
2 Rewrite this $\frac{6}{8}$ rhythm in $\frac{2}{4}$. The first bar has been completed for you.



3 Rewrite this rhythm using notes of half the value. The first note has been given.



4 Write the equivalent rest for these notes:



5 Join up these rhythms with the correct time signatures and descriptions.

6 Have a look at this piece, then complete the puzzle questions below.

Fanfare and stately march of the theory teachers

Maestoso

- The last note is a breve and lasts for 4 minim beats.
- Add the correct time signature.
- How many semiquavers are there in the first two (tied) notes altogether? 39
- Try to imagine what this piece sounds like in your head, then play it or ask a friend or teacher to play it for you.
- Add an appropriate performance mark at the start. † possible answer
- ♪ + ♪ + ♪ = which of these note-values?

Circle the two examples of this note-value in the piece.



Making connections to your pieces

Choose a piece or song you are currently learning that is in simple time (ask your teacher to find one for you if you don't have one). Rewrite the first few bars on the staves below in compound time, using duplets where needed.

- What is the shortest note duration used? _____
- What is the key? _____ Circle all the tonic notes in your extract.
- Describe the time signature as: **duple**, **triple** or **quadruple** _____
- Try rewriting the first two bars of your tune below, either doubling or halving the note and rest values. Think carefully about what time signature you will need to use.



Workspace



More connections

- Choose a piece you are learning that includes ordinary dotted notes. Now play or sing it making the dotted notes double-dotted! How does this change the musical effect?

- Make up your own short fanfare using a mixture of long notes and double-dotted notes.



Aural/listening

Listen to these four pieces: two include ordinary dotted notes and the other two, double-dotted notes. Write 'DN' for dotted notes and 'DDN' for the double-dotted ones.

1 DN 2 DDN 3 DDN 4 DN

Theory box of fun



The longest known note ever held on a wind or brass instrument was played in Wolverhampton, England, in 2006: a clarinettist kept the note going continuously for one minute and 13.38 seconds. If you are a singer, wind or brass player, what is the longest you can hold a note for? Remember to 'breve'!

Stage 3

The alto clef



Facts box



- The most common clefs are the treble and bass clefs. The **alto clef** () is mainly used by the viola, as the range of notes on the alto staff fits with the notes that the viola plays. Sometimes, however, it is also used by the bassoon, cello and trombone, especially if they are playing particularly high notes.

- The alto clef is also known as the **C clef** because the line it is centred on is a C. 

- Here is the same melody written in the treble, alto and bass clef; notice the note C in each example:



Beethoven

Middle C

- 1 Fill in a semibreve on each line and in each space between those given. Write the note names underneath.

F G A B C D E F G

- 2 Trace over the simplified alto clef and then draw four more. Make sure they are all centred on the middle line (note C).



- 3 Write out these notes and key signatures in the other two clefs. Make sure you write the note out at the same octave as the original (you may need to use ledger lines).



4 Rewrite the following tunes at the same pitch in the alto clef.

i)

ii)

5 Have a look at this piece, then complete the questions below.

I see a C clef

- In what key is this tune? C major
- What is the highest note? F What is the lowest? D
- Circle a bar that includes the key-note (tonic) and then rewrite the bar in the treble clef:

- Why are there only three beats in the final bar? There is an anacrucis
- Which bars include all the notes of the tonic triad? 2, 5, 6

6 Name these notes and triads.

B#
D major
Bb
C minor
F#
F major

7 Write out the note names below the staff for the first two bars and then rewrite the first six bars at the same pitch but in the bass clef on the staves below. The first bar has been completed for you.

Two clefs go dancing

C C C B A G F E D

Now transpose the first six bars of the melody up one octave and into the treble clef.





Making connections to your pieces

Choose a piece or song you are currently learning and write out the first four bars on the staves below. Make sure you include all of the information and write clearly and accurately.

- Is your piece: **major** or **minor**? _____
in **simple time** or **compound time**? _____
- What is the key-note (tonic)? _____
Circle it in the music and then write it in the alto clef here:

- Write out the first four bars of your piece in the alto clef at the same pitch as the original.



Workspace



More connections

- Find and listen to a viola being played online.
- Do you think your piece or song could be played on the viola? **Yes / No** (circle)



Aural/listening

What three instruments can you hear in these extracts? One of them is a viola!

- 1 Clarinet
- 2 Viola
- 3 Trumpet

Theory box of fun



The **alto clef** is also called the **C clef** because it is centred on the note **C**. Try designing your own clef symbol based around another musical letter of the alphabet!

Stage 4

New keys:
B and D \flat major;
G \sharp and B \flat minor



Facts box

B major and **G \sharp minor** share the same key signature:



D \flat major and **B \flat minor** share the same key signature:



Double sharps and double flats mean that notes sounding at the same pitch can be written in different ways. For example: **C \times = D = E $\flat\flat$**
 These notes are called **enharmonics** (see Stage 7).

\times A **double sharp** raises a note by two semitones. It is needed in G \sharp minor to raise the 7th (the F \sharp to F \times).

$\flat\flat$ A **double flat** lowers a note by two semitones.

Double sharps and flats are cancelled simply by using a single sharp or flat before the note. $\sharp\flat$ is not needed.

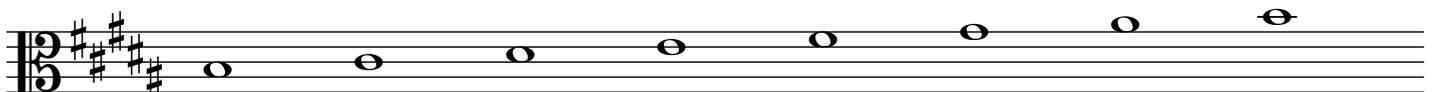
- 1 Using semibreves, write out the scale of D \flat major (ascending) using accidentals instead of a key signature.



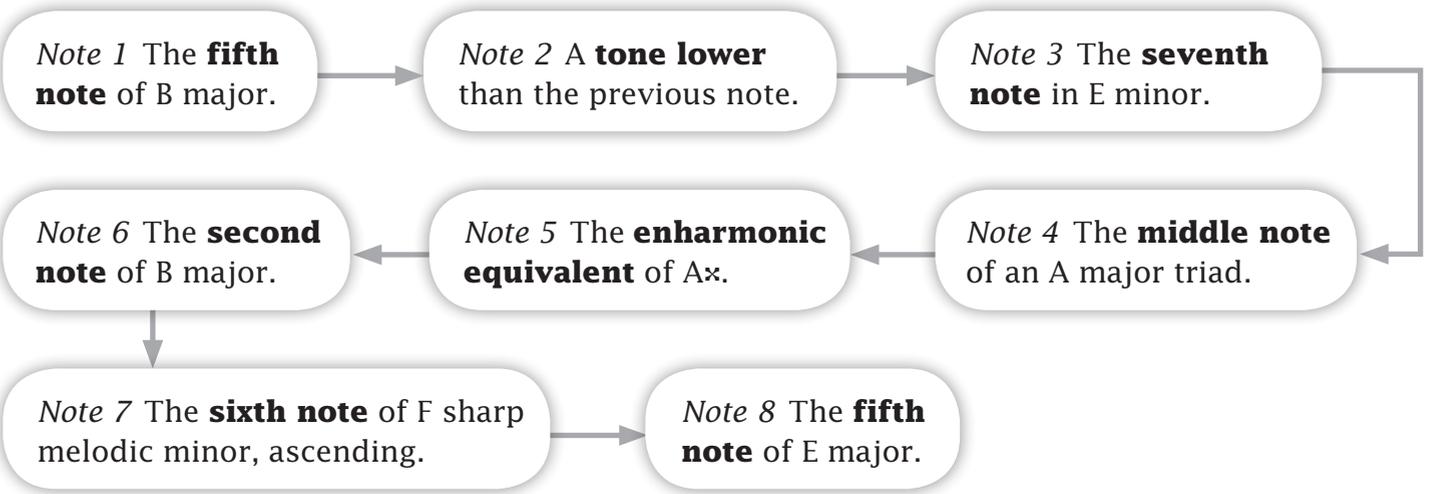
- 2 Add the necessary accidentals to make this into the scale of G \sharp melodic minor.



- 3 Write out the scale of B major (ascending) in the alto clef in semibreves. Use the correct key signature.



4 Follow the clues below and, using the rhythm written above the staff, write out the first phrase of a well-known melody.



At what time of year might you hear/sing/play this tune? Christmas

5 Have a look at this piece, then complete the questions below.

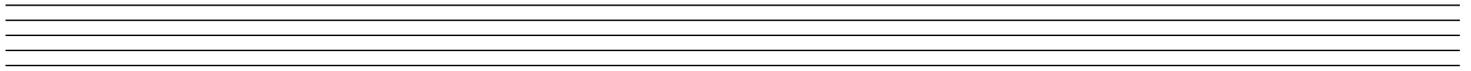
Stop dawdling and be sharpish!

- In which key is this piece? G# minor What key is its relative major? B major
- In which bar can you find the notes of the tonic triad? Bar 2, 3 (either answer is acceptable)
- Write the triad an octave lower and without a key signature:
- What note sounds the same as the first note in bar 4? G (b)
- Add a double flat or double sharp to the B and G to make them enharmonics equivalents of the A.



Making connections to your pieces

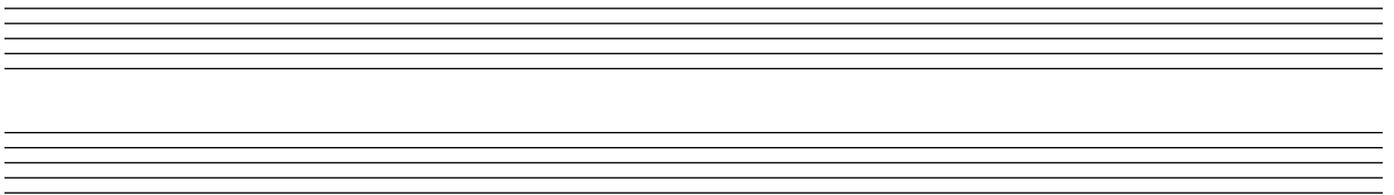
Ask your teacher to help you find a piece or song in one of the keys introduced in this stage, and write out the first few bars of the melody on the stave below.



- In what key is the piece? _____ What is its relative key? _____
- Can you find any double sharps or double flats? Circle them in the music.
- Does your piece begin on: **an upbeat** **a downbeat** (circle)
- Clap the rhythm and see if you can find any repeated patterns. Write them in the workspace.
- Write out the first two bars in the alto clef in the workspace, either at the same pitch or an octave higher or lower. Did you write it:
at the same pitch **an octave higher** **an octave lower** (circle)

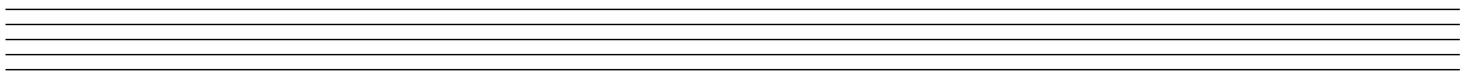


Workspace



More connections

Write out the first two bars of a piece or song you are learning and notate each note using an enharmonic equivalent – e.g. write F as E# or G as Fx. Try your new version out on your teacher or a friend.



Aural/listening

Listen to the following three melodies and decide which:

- is in a major key throughout
Tune **1** **2** **3** (circle)
- is in a minor key throughout
Tune **1** **2** **3** (circle)
- uses both major and minor
Tune **1** **2** **3** (circle)

Theory box of fun



In the 13th and 14th centuries there were symbols to denote really long notes. The longest was known as the **maxima**, which was nine times longer than a breve and eighteen times longer than a semibreve! As music developed there became less and less need for notes this long and so they gradually fell into disuse.

Stage 5

Naming the degrees in the diatonic scale



Facts box

The notes in a scale can be numbered from 1 to 8 to show the **degree** of the scale. For instance, the note D in the scale of C major is 2 as it is the **second degree** of the scale.

Each degree of the scale also has a name:

1 2 3 4 5 6 7 8

Tonic Supertonic Mediant Subdominant Dominant Submediant Leading note Tonic

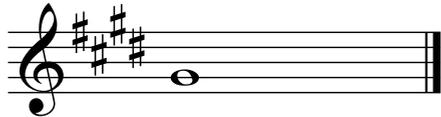
These names apply to both major and minor scales.

1 Cover up the facts box and then circle whether these statements are true or false.

- The second degree of a scale is called the 'subtonic'. **true** / **false**
- The sixth degree of the scale is called the 'submediant'. **true** / **false**
- The dominant of G major is C. **true** / **false**

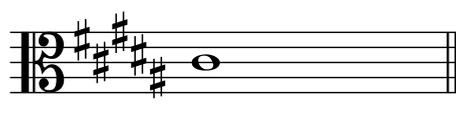
2 What are the degree names of these notes in both the major and minor keys?
The first has been completed for you.

i)



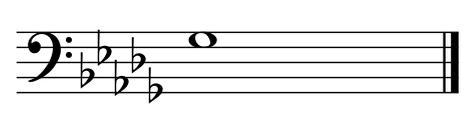
Mediant in E major
Dominant in C minor

ii)



Supertonic in B major
Subdominant in G# minor

iii)



Subdominant in Db major
Submediant in Bb minor

3 Write out the scale of D melodic minor, descending, giving the degree numbers.
Use a key signature.

8 7 6 5 4 3 2 1

Theory box of fun

Why do the majority of scales have 8 notes? Actually it's because of a very complicated and gradual evolution that began with Pythagoras thousands of years ago. The development is actually very scientific and based on the vibrating frequencies of pitches; but the fact is, an 8-note scale sounds good, and makes for tunes that sound like, well ... tunes.



4 Here's a crossword for you to enjoy. It uses some of the words you've recently learned.

ACROSS

- 2 A pair of two equal notes to be performed in the time of three.
- 9 To write or play a piece in a different key from the original.
- 10 The time when you have your ice cream halfway through a play, or the difference between two pitches.
- 11 The same notes with different names.
- 12 The spooky sounding minor scale, or the one that's the same going up and coming down.

DOWN

- 1 A drink that will give you a boost, or the note above the tonic.
- 3 Lowers a note by two semitones. (6, 4)
- 4 In any key, the name for the third note of the scale.
- 5 The clef used by the viola.
- 6 What you find above the dominant.
- 7 Happy and optimistic, it comes before the downbeat!
- 8 A long note; something that you can't do underwater.

5 Have a look at this piece, then complete the puzzle questions below.

'I'll have twelve pieces of eight' said the pirate

With a sense of evil and menace

- In what key is the piece? Bb minor
- Put an **X** over all the submediant notes you can find and draw a circle around a dominant.
- Give the meaning of $\frac{12}{8}$ 12 quaver beats in a bar
- Draw a over six notes next to each other that form part of the harmonic minor scale. † possible answer
- What time signature would you use to rewrite this tune with notes of half the value? $\frac{12}{16}$

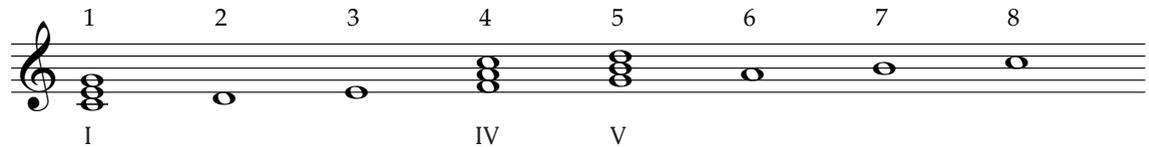
Stage 6

Triads and chords on I, IV, V



Facts box

Triads can be built on each degree of major and minor scales and they take their name from the degree. For instance:



Triads can also be referred to using Roman numerals:

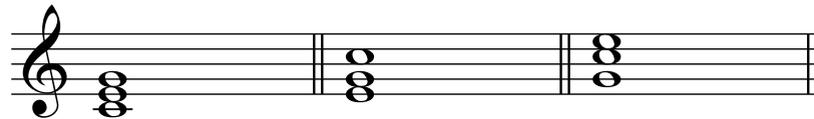
I (tonic), IV (subdominant), V (dominant)

SPECIAL ALERT! Dominant triads in minor keys

As the middle note of this triad is the 7th degree of the scale, it has to be raised by a semitone in the same way that it is raised when writing or playing the harmonic minor scale. So the dominant triad in minor keys is major!

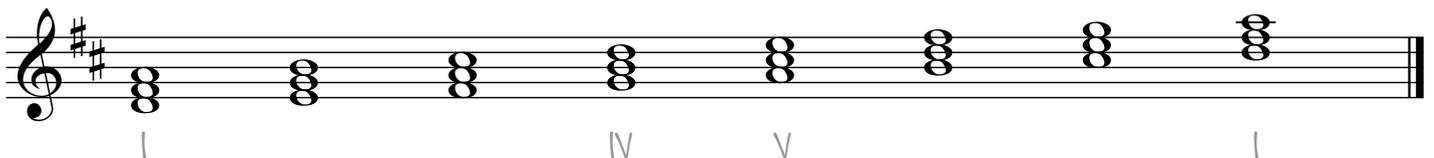
A **chord** is the name given to two or more notes that are played at the same time.

- Triads are a simple type of chord made up of three notes.
- A tonic triad can also be called a **tonic chord**. However, while the tonic triad always has its notes arranged in the same order (with the tonic at the bottom), the tonic chord can have the notes rearranged into any order:

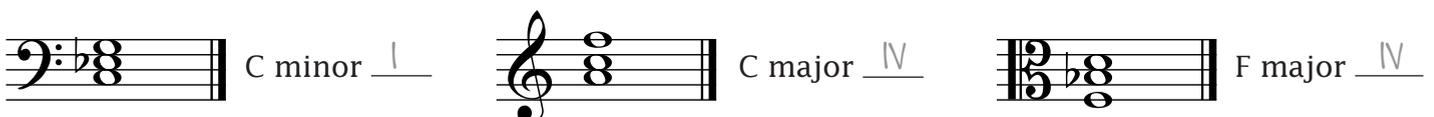


The same applies to chords built on other degrees of the scale, including the dominant and the subdominant.

- 1** Here are the triads built on each degree of the D major scale. Write I, IV and V under the appropriate triads.



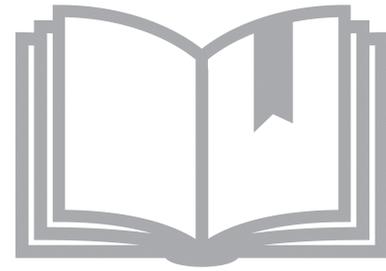
- 2** Identify each of these chords by writing I, IV or V next to the given key.



6 Name the key of this piece and the chords marked with a * by writing I, IV or V underneath.

Hymn for Tim

IV V I



Key C minor



Making connections to your pieces

Choose a piano piece (or the piano accompaniment to one of your pieces or songs) that uses chords and/or triads and write out the first few bars on the staves below. Ask your teacher or a friend to help you find one if you need to.

- In what key is the piece? _____
- Can you find one example of a tonic, subdominant and dominant chord? If you can, circle them in the music.



Aural/listening

Listen to the four short pieces and connect the description with the order they are played.

A piece containing mostly triads

A piece with no triads at all

A piece with a tune accompanied by triads

A piece with big chords

played 1st

played 2nd

played 3rd

played 4th

Theory box of fun



The word 'chord' stems from the Middle English slang for 'accord', meaning in agreement or reconciliation. It began being used in the 16th century to describe a set of notes that sounded harmonious when played together – notes that were 'agreeable' to one another ... or 'in accord'.

Stage 7

The chromatic scale



Facts box

A **chromatic scale** is a scale that is made up entirely of semitones.



- It can start on any note.
- It contains the same 12 notes but can be written in different ways. For every space and line on the staff, a chromatic scale contains at least one and never more than two notes.

Enharmonics

- D# and Eb are the same note (when played on the piano, for example) and are called **enharmonics**.
- Similarly C# and Db, F# and Gb, G# and Ab, A# and Bb are enharmonic equivalents.
- There are also some slightly more uncommon enharmonics like E# and F, Bbb and A, Fx and G.

1 Add accidentals where needed to make this into a chromatic scale.



2 Have a look at this melody and mark any group of four notes that form part of a chromatic scale with a .

A chromatic moment



3 Label each of these as one of the following:

chromatic scale major scale melodic minor scale



chromatic scale



melodic minor scale

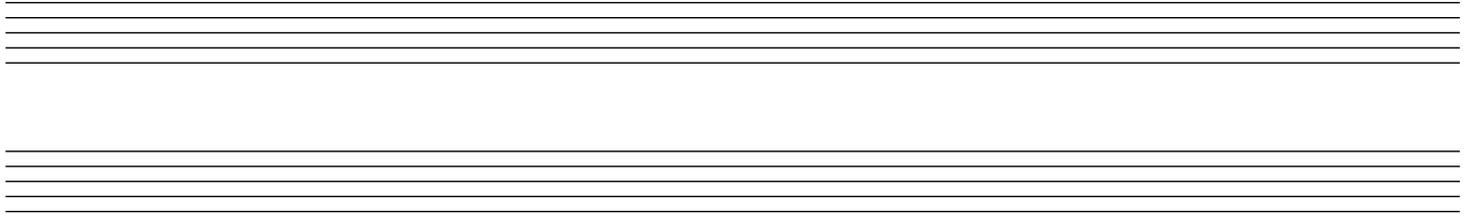


major scale



Making connections to your pieces

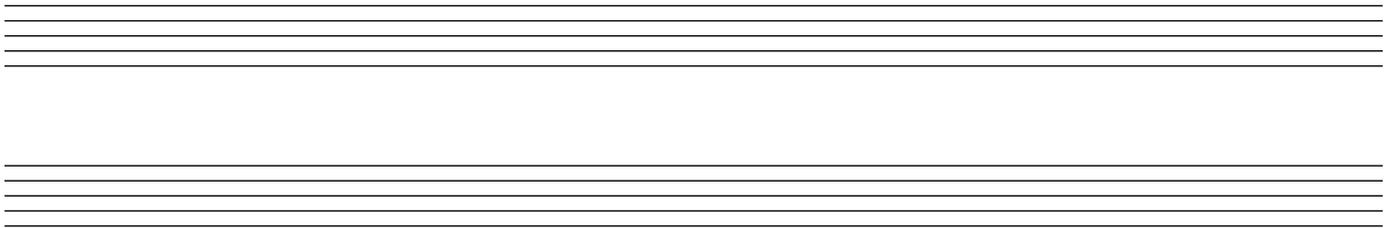
Find a piece or song you are learning that contains a chromatic sequence and write out a few bars on the staves below. Ask your teacher or a friend to help you find one if you need to.



- How many 'chromatic passages' can you find in your extract? _____
Mark them with a  over the music.
- Choose one chromatic passage that you marked and rewrite it in the workspace in the following ways:
 - in a different clef
 - at a different octave
 - writing at least one note in its enharmonic equivalent



Workspace



Aural/listening

Listen to these extracts. Circle the two that contain chromatic passages.

1

2

3

Theory box of fun



The name for the **chromatic scale** comes from the ancient Greek word 'Chroma' meaning colour, and 'Scala' meaning stairs or ladder – so 'chromatic scale' quite literally means 'colourful ladder'! Play a chromatic scale of your choice, thinking of a different colour for each note.



Stage 8

Intervals



Facts box

Here are the intervals between all notes within an octave span from C to C:



We're now meeting two new types of interval: **augmented** and **diminished**.

- Increasing a major or perfect interval by a semitone creates an **augmented interval**.
- Decreasing a minor or perfect interval by a semitone creates a **diminished interval**.

	2nds	3rds	4ths	5ths	6ths	7ths
+1 semitone	 augmented	 augmented	 augmented	 augmented	 augmented	
0	 major	 major	 perfect	 perfect	 major	 major
-1 semitone	 minor	 minor	 diminished	 diminished	 minor	 minor
-2 semitones		 diminished				 diminished

How to work out an interval

- Look at the lower note. This is note '1' when counting intervals.
- Think of it as a natural (whatever it is) and the first note of a major scale.
- Count up to the upper note. This will give you the interval number.
- Is the upper note in the major scale? If yes, it's a major or perfect interval.
- If no, work out how many semitones smaller or larger than the major-scale interval it is. This will tell you whether it is minor, diminished or augmented.

Here's an example:

- Lower note is F (think F major, ignore the sharp).
- Count from F to E. It's a 7th.
- E is a major 7th above F. Eb would make it a minor 7th.
- But the F# decreases the interval by another semitone, so it's a **diminished 7th**.

1 Add accidentals to the upper note to create the named harmonic intervals.

Augmented 2nd Diminished 5th Minor 7th Augmented 4th Minor 3rd Major 6th

2 Have a look at this tune and name the melodic intervals.

There will now be a 9-minute interval!

Important Remember that intervals are always counted from the lower note, even if it comes second. Don't forget about the key signature!

- 1 perfect 5th 2 diminished 7th 3 minor 2nd
- 4 diminished 5th 5 major 2nd 6 major 7th
- 7 minor 7th 8 minor 3rd 9 major 6th

3 Find all of the intervals of a 6th.

- How many of them are major 6ths? 2
- How many are minor 6ths? 1

4 Have a look at this piece, then complete the questions below.

Hello mellow fellow! Are you playing the cello?

Moderato

- Which of the numbered intervals are minor 3rds? 1, 2, 3
- Which bar contains an octave? 2
- What is interval No. 4? diminished 7th
- Which bars contain a perfect 4th? 1, 3 and which bars a perfect 5th? 1, 5



Stage 9



Facts box

Composing four-bar rhythms from a one-bar opening

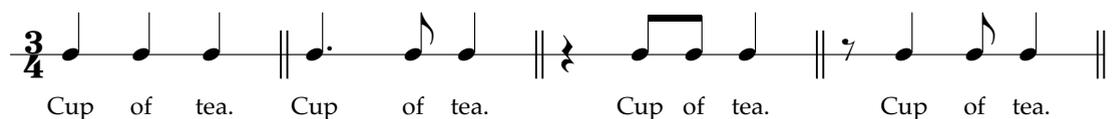
- Think about the time signature. How many beats in each bar? What kind of beats?
- If the rhythm begins with an *up-beat* then each phrase will begin on the same beat of the bar (the final beat). Remember to make the first and last bar add up to a complete bar.
- Use similar rhythms for each bar.
- Make the 3rd bar the most exciting (but not too exciting!)
- End on a long note.
- Clap your rhythm (or hear it in your head as you'll have to do in the exam) and feel that it makes *good musical sense*.

Composing rhythms to words

- All words have rhythm. This is the rhythm of my name:  Paul Har-ris

When setting lyrics to a rhythm, say the words aloud and notice the natural accented syllables. This will help you to decide on a time signature. Then circle or underline the accented syllables and add a bar-line before each accented word.

- Make sure that every syllable has a note.
- Add the rhythm above your words, with each syllable placed directly under the note to which it is spoken. Use hyphens to separate syllables within words.
- Begin with a simple rhythm, then see how you can make it a little more imaginative and varied. Here are four different rhythms for 'Cup of tea' in $\frac{3}{4}$:



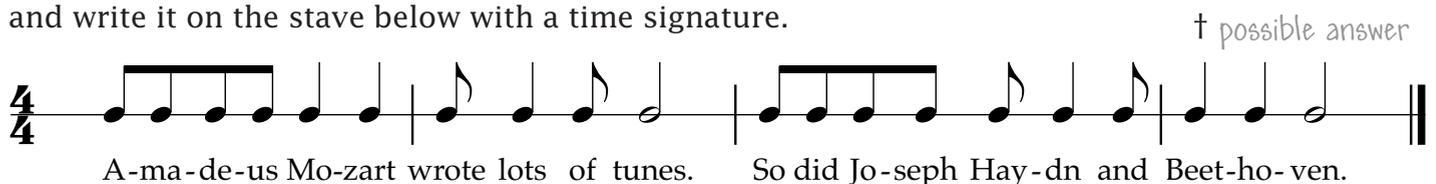
Cup of tea. Cup of tea. Cup of tea. Cup of tea.

- 1 Write down the rhythm of your full name on the staff below. Make sure you include a time signature at the start and that the syllables are written under each note.



Am - a - de - us Moz - art

- 2 Using the rhythm of your name from question 1, create your own four-bar rhythm and write it on the staff below with a time signature.



A-ma-de-us Mo-zart wrote lots of tunes. So did Jo-seph Hay-dn and Beet-ho-ven.

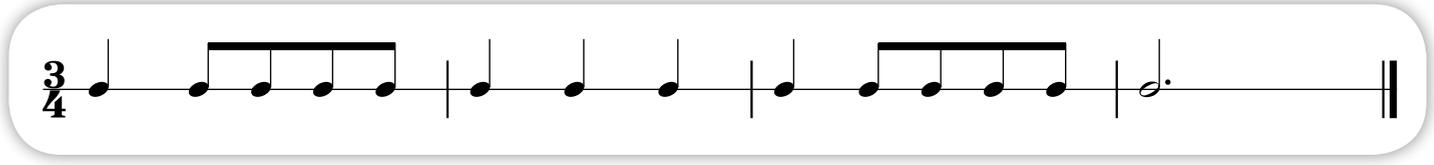
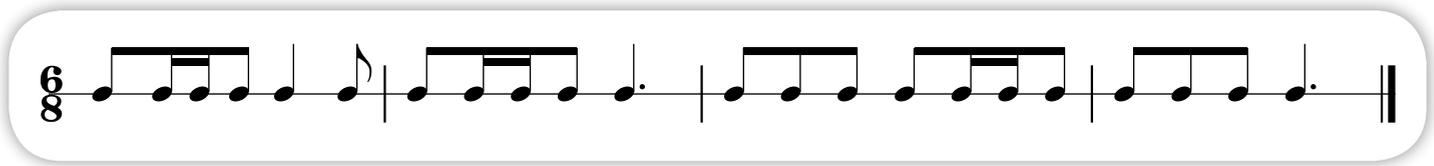
Now make up your own words to fit your rhythm.

3 Clap the one-bar rhythm below and then write down three more bars that are based on it.

† possible answers

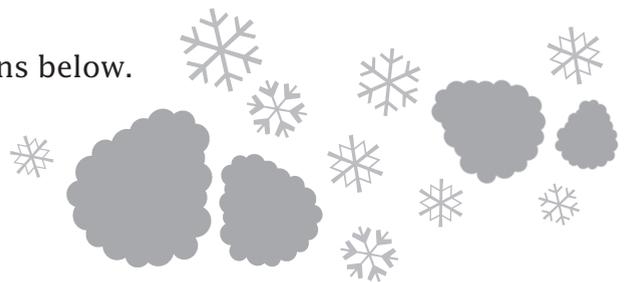


Now complete each of these four-bar phrases with related and interesting rhythms. Have a look at the facts box on page 30 to remind yourself of the 'rules'.

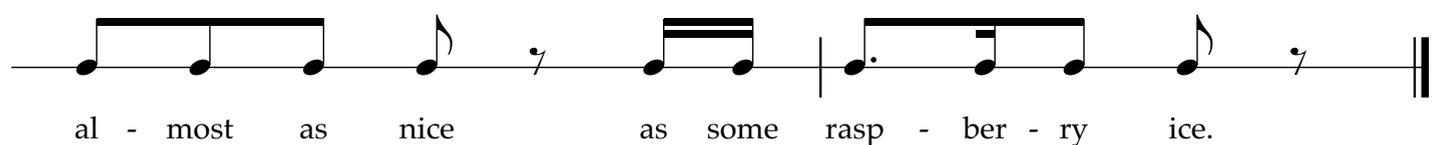
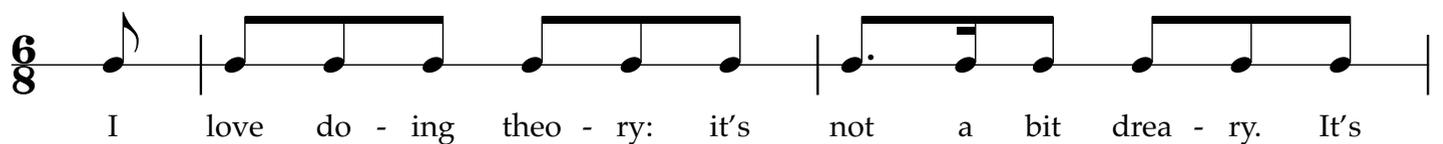


4 Say these lyrics aloud and then answer the questions below.

*I love doing theory - it's not a bit dreary.
It's almost as nice as some raspberry ice.*



- Put an accent (>) on the strong syllables.
- Write down any time signatures that would fit the rhythm of the words (there may be more than one!) 4/4 6/8 12/8 6/4 † possible answers
- Think about the mood or character of the words. What kind of rhythm do you think would suit this (e.g. bouncy, dotted, slow, repetitive)? † possible answer bouncy, energetic, lots of movement, fast
- Now write the words on the dotted lines and your rhythm on the lines above:



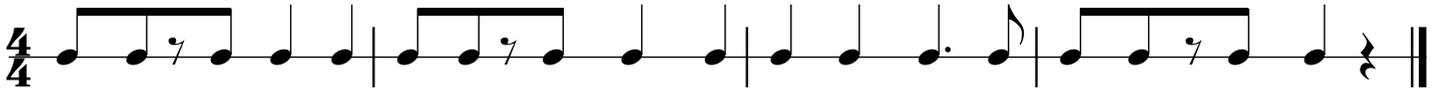
5 Clap or play the following rhythms and then decide which of the words fits best with each one. Write the chosen words under the rhythm.

1 *The day I did my theory, I'd never been so cheery.*

2 *Duplets are red but triplets are green; I've always said that theory's a scream!*

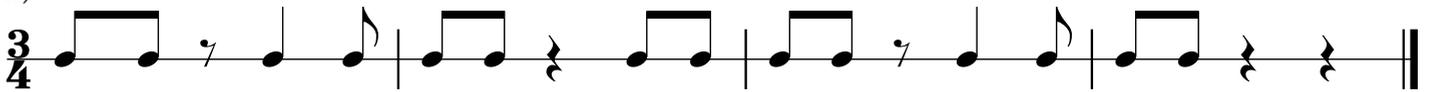
3 *Nothing could be finer than the key of B flat minor.*

i)



Dup-lets are red but trip-lets are green. I've al-ways said that theo-ry's a scream!

ii)



No - thing could be fin - er than the key of B flat mi - nor.

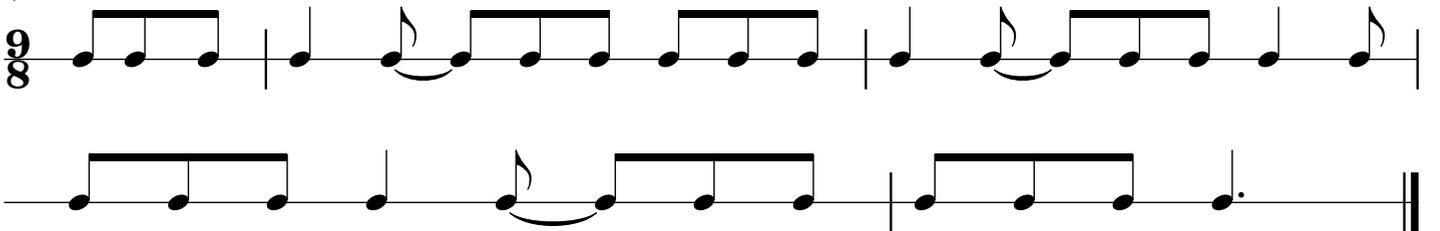
iii)



The day I did my theo-ry I'd ne-ver been so cheer-y.

6 Here are some more four-bar rhythms for you to complete.

i)



ii)

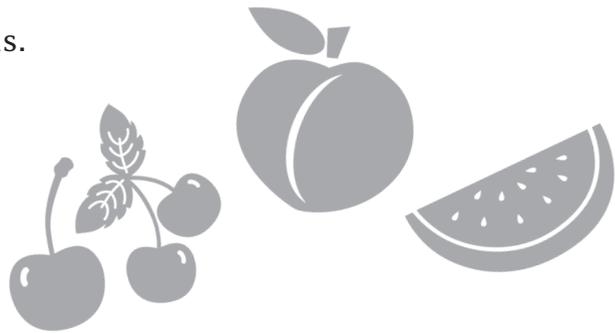


iii)



7 Write a four-bar rhythm for the following words.

*Scales are nice like deep fried rice
And triads are full of beauty.
But chords are just about the best
Because they're really fruity.*



† possible answer

4/4

Scales are nice, like deep-fried rice, and tri-ads are full of beau - ty. But chords are just a - bout the best be - cause they're ve - ry frui - ty.

8 Have a look at this piece, then answer the questions below.

4/4

The grass is red, the sea is dry, the sun is blue; but none of this is true.

- Is this a good setting of these words? no
- If you think it's a poor setting, give your reasons here: † possible answer
The strong beats are set to words that aren't important, such as 'the', while important words like 'red' and 'sea' are on off-beats.

Now write your own rhythm to the words:

6/8

The grass is red, the sea is dry, the sun is blue; but none of this is true.

Theory box of fun



In many African cultures, 'talking drums' are used as a method of communication. The complex rhythmical sounds are usually made by hand but sometimes with a beater. A skilled player can send messages like, 'Come back home now' or 'Bring some food'. Amazingly the messages can travel up to four or five miles.





Making connections to your pieces

Find a piece you are learning and choose one bar that has an interesting rhythm.
Write the rhythm in bar 1 below:



- Clap or tap the rhythm; how would you describe it (e.g. playful, steady, dotted, repetitive)?

- Add another three bars to make up your own four-bar rhythm.
- Describe how your rhythm compares with the way the original piece develops.



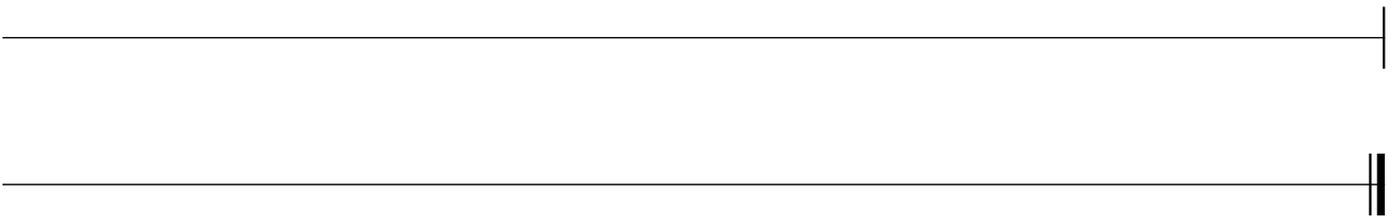
More connections

Using your four-bar rhythm:

- rewrite the rhythm in the workspace below, halving or doubling the note-values.
- choose a key and improvise a simple melody to fit your rhythm.
- make up a two- or four-line poem and set it to your rhythm.
- recite your poem.



Workspace



Aural/listening

Listen to these two rhythms and match them up with the words that best fit.

rhythm 1 ———— *An apple a day keeps the doctor away.*

rhythm 2 ———— *A carpenter is known by his chips.*



Stage 10

Ornaments



Facts box

Ornaments are notes that decorate a melody. They are usually written as small notes ('grace notes') or using special signs.

Trill (sometimes called a 'shake')	
Turn	
Inverted turn	
Upper mordent	
Lower mordent	
Appoggiatura	
Acciaccatura (sometimes called a 'crushed note')	

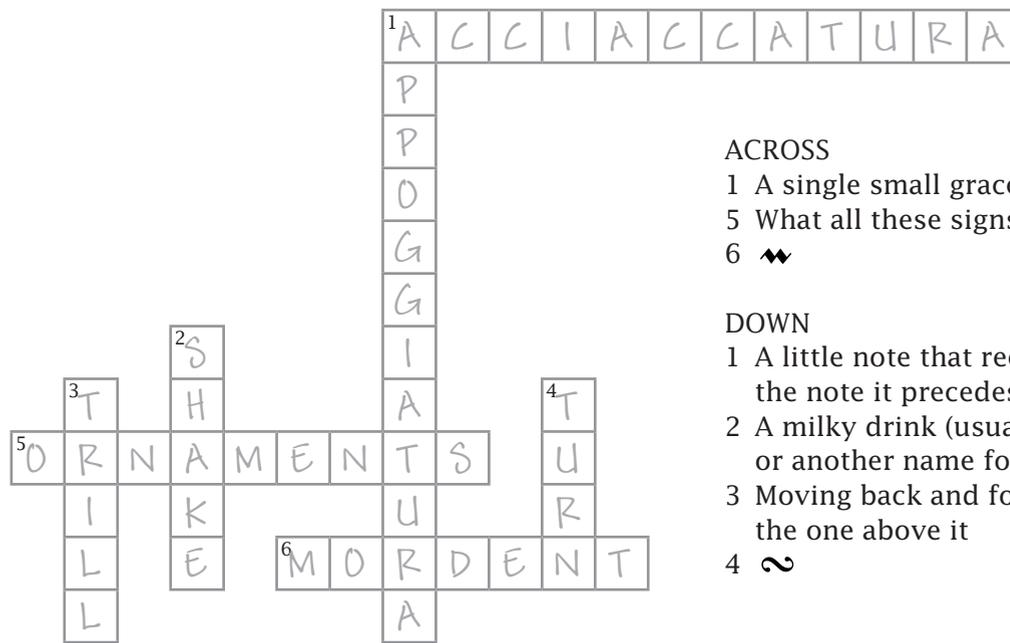
- 1 Identify each numbered ornament and then try to play this melody or ask your teacher to play it for you.

- i) upper mordent ii) lower mordent iii) trill
 iv) turn v) acciaccatura

- 2 Identify each of these written-out ornaments:

<u>acciaccatura</u>	<u>trill</u>	<u>turn</u>	<u>lower mordent</u>

3 Enjoy this crossword. All the answers are types of ornaments.



ACROSS

1 A single small grace note with a slash

5 What all these signs are called

6 ♪

DOWN

1 A little note that receives half the value of the note it precedes

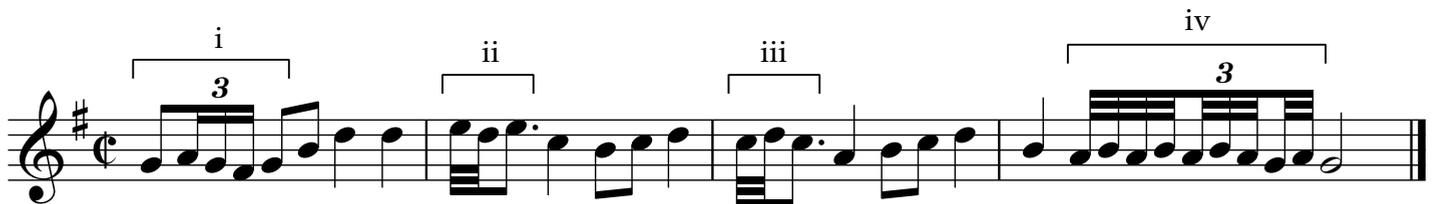
2 A milky drink (usually made with bananas) or another name for a trill

3 Moving back and forth between a note and the one above it

4 ∞

4 Have a look at this piece, then complete the puzzle questions below.

How very ornamental!



- Write out the notes under each bracket as an ornament, using the correct symbols, and name each one.



Ornament: turn



Ornament: lower mordent



Ornament: upper mordent



Ornament: trill

- What is the key? G major
- Try to play the tune or ask your teacher or a friend to play it to you.



Making connections to your pieces

Find a piece you are learning that contains some ornaments. Ask your teacher to find you an example if you don't have one. Write out a few bars of the melody line on the staves below.

- How many different kinds of ornamentation can you find? _____
Circle them in the music and write their names underneath.
- Find out the name of the musical period when ornaments were extremely common and name some composers who lived and worked in that period.
Write your findings in the workspace.



Workspace



More connections

Make up (improvise) your own piece in the same key, using some ornamentation. Which ornaments did you use?



Aural/listening

You will hear four extracts, each containing one kind of ornamentation. Match up the extract with the ornamentation used.

Extract 1	
Extract 2	
Extract 3	
Extract 4	

Theory box of fun



For three whole centuries, from 1600 until 1900, the **appoggiatura** was the most widespread ornament used in music. In opera it was the way to indicate dramatic sobs, when the character singing is crying or having a tantrum!

Stage 11

Instruments and performance directions



Facts box

Instruments can be grouped into different 'families', depending on the material they are made from and how they produce the sound.

Woodwind



- Produce sound by a column of air vibrating within a hollow tube
- **piccolo, flute, oboe, clarinet, cor anglais, saxophone**
- **bassoon**

Keyboards



- Instruments with keys that are depressed to produce different pitches
- **pianoforte (piano), harpsichord, organ**

Brass



- Produce sound by a column of air vibrating within a hollow tube
- **French horn, trumpet**
- **trombone, tuba**

Strings



- Made of wood
- Produce sound by plucking or drawing a bow across the strings
- **violin**
- **viola**
- **cello, double bass**

Percussion



- Pitched and unpitched instruments that produce sound by being struck
- unpitched: **side drum, tambourine, cymbal, gong**
- pitched: **glockenspiel, xylophone, tubular bells**
- pitched: **timpani**

Performance directions for instruments

<i>con sordino (con sord.)</i>	play with mute	(strings and brass)
<i>senza sordino (senza sord.)</i>	play without mute	(strings and brass)
<i>pizzicato (pizz.)</i>	pluck the string	(strings)
<i>arco</i>	play with the bow	(strings)
	'down' bow, 'up' bow	(strings)
<i>col legno</i>	play with the bow upside-down	(strings)
<i>sul G, sul ponticello</i>	play on the G string, play near the bridge	(strings)
<i>con pedal (con Ped.)</i>	play with the sustaining pedal	(piano)
	spread the notes of a chord quickly from the bottom upwards	(piano)
<i>una corda, tre corde</i>	press the left pedal, press the right pedal	(piano)
<i>mano sinistra (m.s.), mano destra (m.d.)</i>	left hand, right hand	(piano)

See page 48 for more performance directions.

- 1 The piccolo is the highest sounding woodwind instrument, sounding one octave higher than the notes are written. Rewrite this piccolo melody up one octave at its sounding pitch.

Veloce Flying high

- 2 The double bass is the lowest sounding orchestral string instrument, sounding one octave lower than the notes are written. Rewrite this double-bass melody at its sounding pitch.

En pressant Deep down

- 3 Rewrite this passage in the alto clef, keeping the pitches the same.

The King of Clubs and the Queen of Hearts have a cup of tea

Name one instrument that might play this melody in the treble clef and one that might play it in the alto clef.

Treble clef violin

Alto clef viola

Theory box of fun

Breaking the world record in 1998, the largest (and loudest!) children's orchestra assembled at the National Arena in Birmingham to play Malcolm Arnold's *Little Suite No.2*. There were 3,889 musicians: 1600 strings, 1300 woodwind, 800 brass and over 200 percussion players!



4 Circle the instruments listed below that are *unpitched*.

triangle piano **snare drum** trombone **cymbal** glockenspiel (circle)

5 Select the most appropriate instrument for each of these extracts.

viola wood block trumpet

i) **Presto**



Instrument: wood block

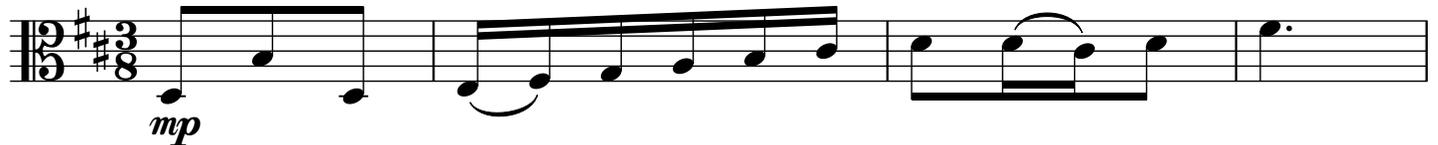
ii) **Maestoso**



Instrument: trumpet

iii)

Vif



Instrument: viola

6 Have a look at this piece, then complete the puzzle questions below.

Mint chocolate minuet

Modéré et douce



● What does *Modéré et douce* mean? sweetly at a medium speed

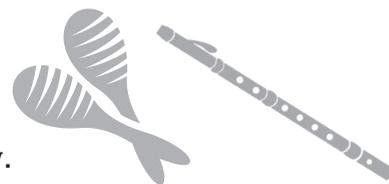
● Which instrument do you think this melody is written for?

clarinet piano triangle **cello** **trumpet piccolo violin** (circle)

● Name the symbol used in bar 2 and describe its meaning. Upper mordent - move up to the note above and move back down again quickly. Crescendo - gradually getting louder.
[Naming either of these symbols is acceptable.]



Making connections to your pieces



Write out a few bars of a piece that you like playing on the staves below.

Two sets of empty musical staves for writing.

Fill each of these bubbles with an interesting feature from your piece.

Six rounded rectangular bubbles containing the following text:

- rhythm
- patterns
- character
- performance directions
- melody
- key



More connections

Find out something about the history of your instrument. When did it first appear? Was it invented? Who wrote the first music for it? If you are a singer, find out when the first notated songs were written and who wrote them. Write your findings in the workspace.



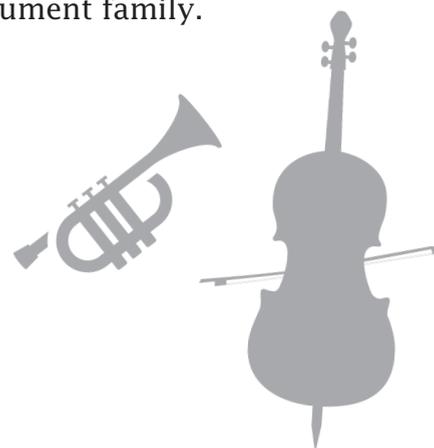
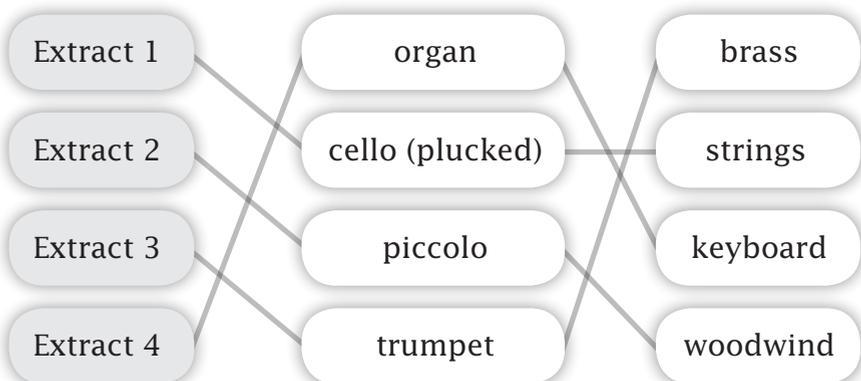
Workspace

A large empty rectangular box for writing findings.



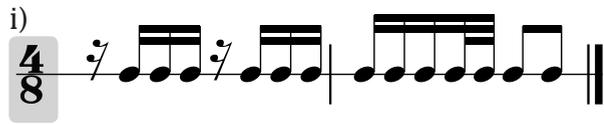
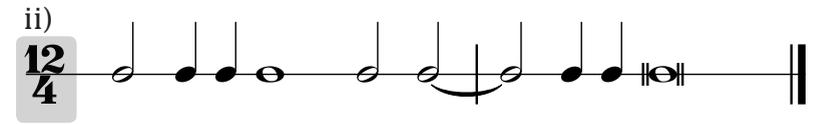
Aural/listening

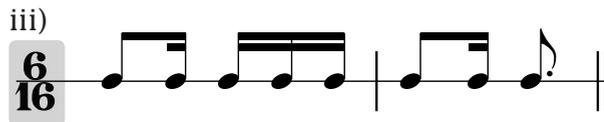
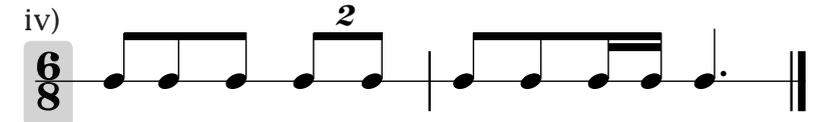
Match up these extracts with the correct instrument and instrument family.



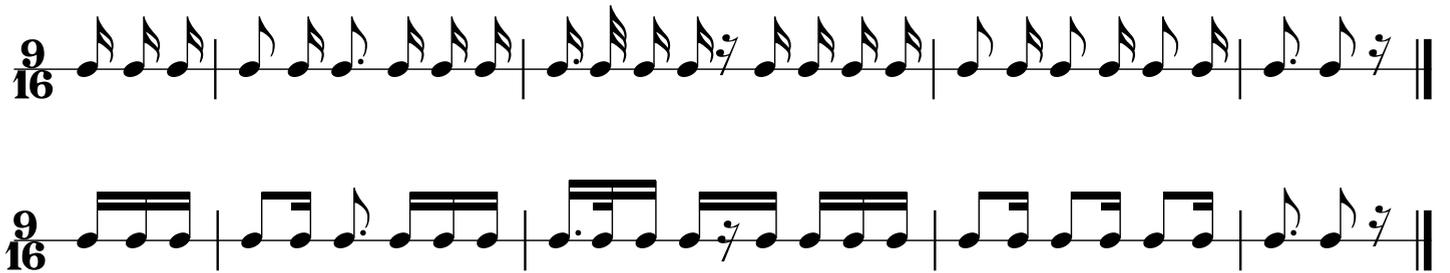
Stage 12

1 Insert the correct time signatures at the start of these rhythms.

i)  ii) 

iii)  iv) 

2 Rewrite this rhythm with the notes and rests correctly grouped.

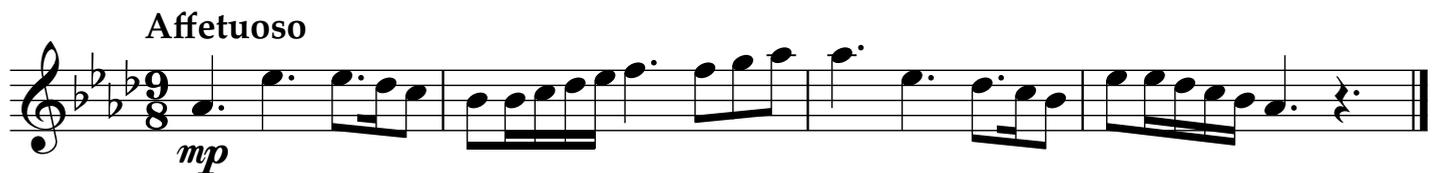


3 Add the correct rests at the * to complete this tune.



4 Rewrite this tune in the ways described below.
Remember to include the new time signature.

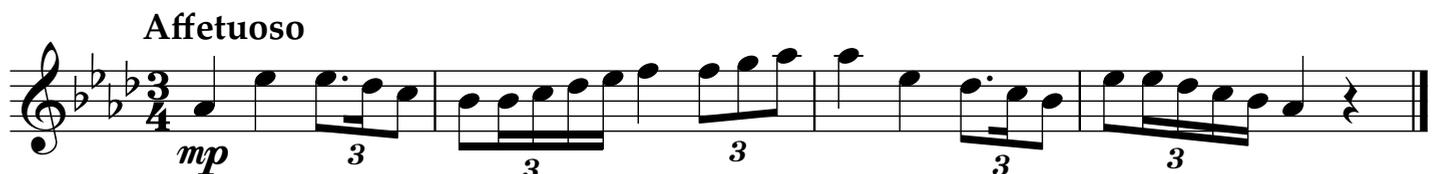
I think I have A FLAT tyre

Affetuoso


i) Using notes of *half* the value.

Affetuoso


ii) In simple time, without changing the rhythmic effect.

Affetuoso


5 Create your own four-bar rhythm in a time signature of your choice and write it on the staff below.



6 Make up your own rhythm to fit these words.

I love eating mango when dancing the tango.

But nothing beats courgette when playing a minuet.



7 Name the notes marked with a *.

Passion fruit and banana milkshake, please

Allegro appassionato

8 Rewrite this tune in the following ways:

Un petit rose rouge croissante dans le grand jardin

i) at the same pitch but in the alto clef.

ii) one octave higher in the treble clef.

9 Write out the scale of B \flat melodic minor (ascending) in breves, using the alto clef. Use accidentals instead of a key signature.

10 Identify these tonic triads by writing I, IV, V underneath. The first one has been given.

A minor I

F major I

C major IV

C major V

C# minor IV

B \flat minor I

F minor I

D major IV

11 Write out the scale of G# melodic minor (descending) in crotchets and using the bass clef. Give the degree names and numbers under each note. Use a key signature.

12 Rewrite each of these notes as an enharmonic equivalent. † possible answers

i)

iv)

ii)

v)

iii)

13 Write triads as indicated below each staff using accidentals but no key signature.

G \flat major V

E minor IV

A \flat major I

C# minor V

14 Name each of the chords marked with a * as tonic (I), subdominant (IV) or dominant (V).

B careful ... Bs about!

Andante

In what key is this piece? B major

15 Add notes after those given to create the named melodic intervals.

Major 2nd Diminished 5th Perfect octave

Minor 3rd Augmented 2nd Minor 2nd

16 Write out a chromatic scale starting on the note B, in the alto clef in semibreves.

17 Name the following ornaments.

turn acciaccatura lower mordent

18 Name a standard orchestral instrument that fits each of these descriptions.

- i) A string instrument that usually uses the treble clef violin
- ii) A woodwind instrument that sounds one octave higher than it is written piccolo
- iii) The lowest sounding member of the string family double bass
- iv) An instrument that might be played *con sordino* trumpet
- v) An unpitched percussion instrument cymbal

19 Study this piece and then answer the questions below.

Rush hour!

Allegro con fuoco ♩. = 96

● Add the correct time signature at the start of the piece.

● In what key is the piece? F minor

● Give the meaning of the following words and signs:

i) *Allegro con fuoco* fast with animation

ii) ♩. = 96 96 dotted crotchet beats a minute

iii) > accent - play the note with added emphasis



● Draw a  over the 11 notes that form part of a chromatic scale.

● Write the enharmonic equivalent of the 1st note in bar 2 (*) as a breve:

● Describe in full the melodic intervals labelled *i*, *ii* and *iii* in this extract (e.g. 'minor 3rd').

i) major 2nd ii) perfect 5th iii) minor 6th

● Transpose the melody of bar 3 down one octave and write it in the bass clef.

● Name the ornament used on the 1st beat of bar 1. acciaccatura

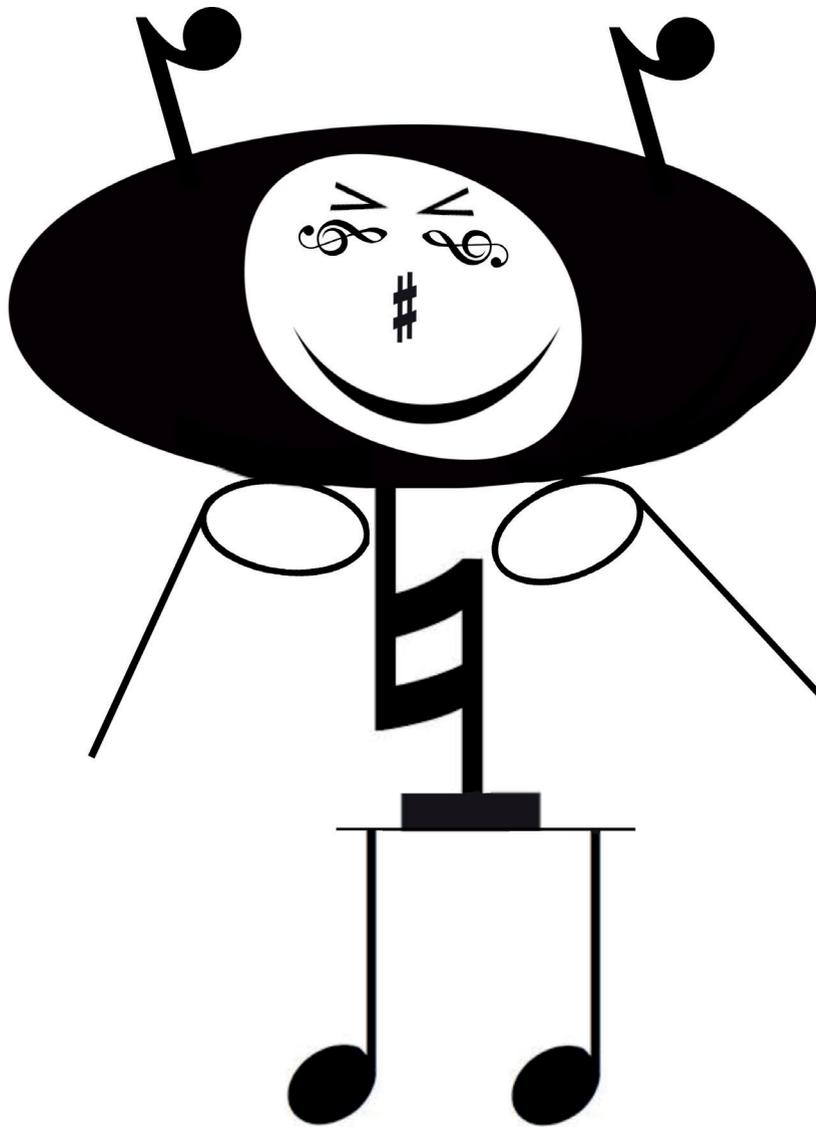
● Give the degree name of the first note in bar 2 (e.g. 'tonic'). mediant

● What is the relative key? Ab major

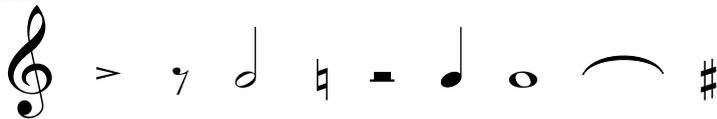
● Which of the following instruments might this piece be played on?

flute violin bassoon trumpet clarinet viola (circle the most suitable)

20 How many signs and symbols can you find in Theory Robot?



Write them here



Congratulations

on completing **Improve your theory! Grade 4.**
See you again for Grade 5!

Appendix

More performance markings

Italian

affettuoso tenderly
affrettando hurrying
calando getting softer
cantando singing style
facile easy
fuoco fire
tempo giusto strict time
l'istesso tempo at the same speed
morendo dying away
niente nothing
nobilmente noble
perdendosi dying away
possibile possible
quasi as if
sonoro sonorous
sotto voce in an undertone
veloce swift

French

animé animated
assez enough
avec, sans with, without
cédez yield, slow down
douce sweet
en dehors prominent
en pressant hurrying on
légèrement light
lent slow
mais but
modéré moderate speed
peu, plus, moins little, more, less
ralentir getting slower
retenu held back
très very
vif lively
vite quick

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 WC1B 3DA

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