

**Designing Effective and Engaging Music Fundamentals Resources for Online Teaching**

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**Harmonia Fundamentals Documents and How-To Video Links**

Harmonia is a music theory app and web-based Learning Management System (LMS). It combines musical score notation with a patented real-time music analysis engine and automatically grades student work to provide instant, pedagogical feedback. This handout provides a list of the free, ready-made lessons and exercises specifically for music fundamentals available in the Harmonia Content Library. It also provides a few links to help you get started using the software in your classroom. (*Updated: February 26, 2021*)

Visit <https://harmonia.illiacsoftware.com/> for more information.

**Part I: Fundamentals Documents in the Harmonia Content Library**

If you are teaching a music fundamentals course online, all of the following documents are available for use in your courses. All of the material below is also customizable. Add your own instructions, add extra practice exercises. Delete any material you don't need. (For example, you can easily remove any examples using movable c-clefs such as alto or tenor clefs if you do not teach them in your fundamentals course.)

To access these materials, Sign In to the Harmonia website with a teacher account (request one when you register), and click on the "Content" tab. This will connect you to the Harmonia Content Library. If you have set up a course on your Dashboard, you can easily add content from the Harmonia Content Library directly into your course.

**MODULE 1: pitch/clef reading and notation**

- Pitch & Staff
  - Pitch & Staff – LESSON
- Treble & Bass Clef
  - Treble & Bass Clef – LESSON
  - Treble & Bass Clef – 01 & 02: Pitch-Class Identification
  - Treble & Bass Clef – 03 & 04: Pitch-Class Notation
- C Clefs
  - C Clefs – LESSON
  - C Clefs – 01 & 02: Pitch-Class Identification
  - C Clefs – 03 & 04: Pitch-Class Notation
- Pitch & Pitch Class
  - Pitch & Pitch Class – LESSON
  - Pitch & Pitch Class – 01 & 02: Pitch Identification
  - Pitch & Pitch Class – 03 & 04: Pitch Notation

- Accidentals
  - Accidentals – LESSON
  - Accidentals – 01 & 02: Identifying Treble-Clef Pitches
  - Accidentals – 03 & 04: Notating Treble-Clef Pitches
  - Accidentals – 05 & 06: Identifying Bass-Clef Pitches
  - Accidentals – 07 & 08: Notating Bass-Clef Pitches
  - Accidentals – 09 & 10: Identifying Alto-Clef Pitches
  - Accidentals – 11 & 12: Notating Alto-Clef Pitches
  - Accidentals – 13 & 14: Identifying Tenor-Clef Pitches
  - Accidentals – 15 & 16: Notating Tenor-Clef Pitches
  - Accidentals – 17 & 18: Identifying Pitches on a Staff – Review
  - Accidentals – 19 & 20: Notating Pitches on a Staff – Review
- Pitch & Clef EXAMS
  - Pitch & Clef MODULE EXAM
  - Pitch & Clef - PRETEST

## **MODULE 2: Scales and Key Signatures**

- Scales (Overview) & Chromatic Scales
  - Scales (Overview) & Chromatic Scales – LESSON
- Major Scales
  - Major Scales – LESSON
  - Major Scales – 01 & 02: Notation (treble clef)
  - Major Scales – 03 & 04: Notation (bass clef)
  - Major Scales – 05 & 06: Notation (alto clef)
  - Major Scales – 07 & 08: Notation (tenor clef)
- Major Key Signatures
  - Major Key Signatures – LESSON
  - Major Key Signatures – 01-04: (multiple choice)
- Scale Degrees & Function Labels
  - Scale Degrees – LESSON
  - Scale Degrees – 01-04: Scale Degrees & Function Labels
- Natural Minor Scales
  - Natural Minor Scales - LESSON
    - Natural Minor Scales – 01 & 02: Notation (treble clef)
    - Natural Minor Scales – 03 & 04: Notation (bass clef)
    - Natural Minor Scales – 05 & 06: Notation (alto clef)
    - Natural Minor Scales – 07 & 08: Notation (tenor clef)
- Melodic & Harmonic Minor Scales
  - Melodic & Harmonic Minor Scales - LESSON
    - Melodic & Harmonic Minor Scales – 01 & 02: Notation (treble clef)
    - Melodic & Harmonic Minor Scales – 03 & 04: Notation (bass clef)
    - Melodic & Harmonic Minor Scales – 05 & 06: Notation (alto clef)
    - Melodic & Harmonic Minor Scales – 07 & 08: Notation (tenor clef)
- Minor Key Signatures
  - Minor Key Signatures – LESSON
  - Minor Key Signatures – 01-04: (multiple choice)

- Scales & Key Signatures – EXAMS
  - Scales & Key Signatures – MODULE EXAM
  - Scales & Key Signatures – PRETEST

### **MODULE 3: Intervals**

- Intervals – Overview
  - Intervals – Overview – LESSON
  - Intervals – 01 & 02: Simple Intervals (generic)
  - Intervals – 03 & 04: Identifying Simple Intervals
  - Intervals – 05 & 06: Spelling Simple Intervals (above)
  - Intervals – 07 & 08: Spelling Simple Intervals (below)
  - Intervals – 09 & 10: Identifying all intervals (simple/compound)
- Altering Interval Quality
  - Altering Interval Quality – LESSON
  - Altering Interval Quality – 01 & 02: Consonance & Dissonance
  - Altering Interval Quality – 03 & 04: (notation)
- Interval Inversion
  - Interval Inversion – LESSON
  - Interval Inversion – 01 & 02: (multiple choice)
- Enharmonic Intervals & Other Considerations
  - Enharmonic Intervals – LESSON
  - Enharmonic Intervals – 01 & 02: Enharmonic & Chromatic Intervals
  - Enharmonic Intervals – 03 & 04: Identifying all intervals
  - Enharmonic Intervals – 05 & 06: Spelling all intervals (above)
  - Enharmonic Intervals – 07 & 08: Spelling all intervals (below)
  - Enharmonic Intervals – 09 & 10: Identification (grand staff)
  - Enharmonic Intervals – 11 & 12: Spelling (above; grand staff)
  - Enharmonic Intervals – 13 & 14: Spelling (below; grand staff)
- Intervals – EXAMS
  - Intervals – MODULE EXAM
  - Intervals – PRETEST

### **MODULE 4: Rhythm & Meter**

- Rhythm & Meter
  - Rhythm & Meter – LESSON 01: Concepts & Terms
  - Rhythm & Meter – Practice 01: Concepts & Terms
  - Rhythm & Meter – LESSON 02: Notes, Rests, Dots, & Ties
  - Rhythm & Meter – Practice 02: Notes, Rests, Dots, & Ties
  - Rhythm & Meter – LESSON 03: Tempo, Beat, Accents, & Measures
  - Rhythm & Meter – Practice 03: Accents & Grouping
  - Rhythm & Meter – LESSON 04: Meters
  - Rhythm & Meter – Practice 04: Rhythm & Meter
- Rhythm & Meter – EXAMS
  - Rhythm & Meter – MODULE EXAM
  - Rhythm & Meter – PRETEST

## **MODULE 5: Triad and Seventh Chords**

- Triads
  - Triads – LESSON
  - Triads – 01 & 02: Major & Minor Identification
  - Triads – 03 & 04: Diminished & Augmented Identification
  - Triads – 05 & 06: Identification (all qualities; all clefs)
  - Triads – 07 & 08: Major & Minor Spelling
  - Triads – 09 & 10: Diminished & Augmented Spelling
  - Triads – 11 & 12: Spelling (all qualities; all clefs)
- Triad Inversion
  - Triad Inversion - LESSON
  - Triad Inversion – 01 & 02: Identification (all qualities; all clefs)
  - Triad Inversion – 03 & 04: Spelling (all qualities; all clefs)
- Seventh Chords
  - Seventh Chords – LESSON
  - Seventh Chords – 01 & 02: MM7, Mm7, & mm7 Identification
  - Seventh Chords – 03 & 04: ø7 & o7 Identification
  - Seventh Chords – 05 & 06: Identification (all qualities; all clefs)
  - Seventh Chords – 07 & 08: MM7, Mm7, & mm7 Spelling
  - Seventh Chords – 09 & 10: ø7 & o7 Spelling
  - Seventh Chords – 11 & 12: Spelling (all qualities; all clefs)
- Seventh Chord Inversion
  - Seventh Chord Inversion - LESSON
  - Seventh Chord Inversion – 01 & 02: Identification (all qualities; all clefs)
  - Seventh Chord Inversion – 03 & 04: Spelling (all qualities; all clefs)
- Triads & Seventh Chords – EXAMS
  - Triads & Seventh Chords – MODULE EXAM
  - Triads & Seventh Chords – PRETEST

## **MODULE 6: Roman Numerals, Figured Bass, & Introduction to Analysis and SATB Part Writing**

- Chord Symbols & Roman Numerals
  - Chord Symbols – 01 & 02: Recognition
  - Chord Symbols – 03 & 04: Spelling
  - Chord Symbols – 05 & 06: Figured Bass Realization
  - Chord Symbols – 07 & 08: Chorale Analysis (chord symbols)
  - Chord Symbols – 09-12: Chorale Analysis (chord symbols & roman numerals)
- Roman Numerals & Inversions
  - Roman Numerals – 01 & 02: Recognition
  - Roman Numerals – 03 & 04: Spelling
  - Roman Numerals – 05: Chorale Analysis (J. S. Bach, complete)
  - Roman Numerals – 06 & 07: Chorale Analysis (J. S. Bach, 1 phrase)
  - Roman Numerals – 08: Chorale Analysis (J. S. Bach, 2 phrases)
- Introduction to Part Writing (I, V, & Cadences)
  - LESSON: Score Spacing & Voicing
  - LESSON: Voice-Leading Rules & Guidelines

- Tonic & Dominant Cadences: Analysis #1-2
- Root-Position Tonic & Dominant Analysis #1-13
- Part Writing Cadences with V7s #1-6
- Part Writing Cadences with V7s (figured bass) #1-4

## Part II: How-To Video Links

For basic instructions on how to log in, create a teacher account and to download the app and get started, watch any of the videos on the Harmonia website. Learn how to create a course, add an assignment, and add ready-made material from the Harmonia Content Library.

- Harmonia How To: Log In to the Website and Harmonia App – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-log-in-to-the-website-and-the-harmonia-app](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-log-in-to-the-website-and-the-harmonia-app)
- Harmonia on the iPad: Student Mode – [videos.harmonia.illiacsoftware.com/videos/harmonia-on-ipad-student-mode](https://videos.harmonia.illiacsoftware.com/videos/harmonia-on-ipad-student-mode)
- Harmonia How To: Set Up a New Course – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-set-up-a-new-course](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-set-up-a-new-course)
- Harmonia How To: Create New Assignments – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-new-assignments](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-new-assignments)
- Harmonia How To: Add Harmonia Content Library Materials to Your Course – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-harmonia-content-library-materials-to-your-course](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-harmonia-content-library-materials-to-your-course)

Note also that some videos show ready-made fundamentals material available to teachers in the Harmonia Content Library. Other videos show you how to make documents from scratch. You can learn how to edit any of the Harmonia Content Library materials to meet your students' needs, and you can also learn how to build your own materials by using our in-app score generators, any of the embedded 371 Bach chorales, or by importing your own music examples in MusicXML. With a teacher account you can use Harmonia's powerful in-app score generators to create a wide variety of fundamentals and diatonic/chromatic analysis and part-writing lessons and exercises. Generate scores, add multiple-choice questions, stream external audio for a better listening experience, and then use our assessment tools to create lessons and exercises you don't have to grade.

- Harmonia How To: Edit Harmonia Content Library – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-edit-harmonia-content-library-documents](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-edit-harmonia-content-library-documents)
- Harmonia How To: Generate Content Using Score Generators – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-generate-content-using-score-generators](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-generate-content-using-score-generators)
- Harmonia How To: Create Pitch & Clef Exercises Using the Harmonia Pitch Generator – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-pitch-and-clef-exercises-using-the-harmonia-pitch-generator](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-pitch-and-clef-exercises-using-the-harmonia-pitch-generator)
- Harmonia How To: Create Scales Using the Harmonia Scale & Pitch Generators – [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-scales-using-the-harmonia-scale-and-pitch-generators](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-scales-using-the-harmonia-scale-and-pitch-generators)
- How to Generate Your Own Intervals Exercises – <https://youtu.be/x1xSbqV0IYA>
- Harmonia How To: Add Bach Chorales to Harmonia Documents –

- [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-bach-chorales-to-harmonia-documents](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-bach-chorales-to-harmonia-documents)
- Harmonia How To: Create Harmonia Documents Using MusicXML –
- [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-harmonia-document-using-musicxml](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-create-harmonia-document-using-musicxml)
- Harmonia How To: Add Multiple-Choice Questions –
- [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-multiple-choice-questions](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-multiple-choice-questions)
- Harmonia How To: Add Streaming Audio Examples –
- [videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-streaming-audio-examples](https://videos.harmonia.illiacsoftware.com/videos/harmonia-how-to-add-streaming-audio-examples)

And finally, if you'd like to see something on the more advanced end of music fundamentals, watch how to create content with the Harmonia SATB Generator. Use Harmonia's SATB Score Generator to easily create a variety of assessments for analysis, roman numeral part-writing, and figured bass realizations. Save it, add it to your course for students to open in the app, and let Harmonia grade it.

- How to Create Content with the SATB Generator – [youtu.be/jVoWixGSrPc](https://youtu.be/jVoWixGSrPc)

If you want to know what Harmonia looks like for students, the remaining links show how students complete and submit assignments and what those assignments look like when automatically graded by Harmonia. Note the instant feedback available in both score annotations and in text-based feedback.

- How to Complete and Submit Analysis Exercises – [youtu.be/3XX688MM0oc](https://youtu.be/3XX688MM0oc)
- How to Complete and Submit Part-Writing Exercises – [youtu.be/dyU--2JXABY](https://youtu.be/dyU--2JXABY)