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| Course:  Music Technology | UNIT 4:  Harmony in Music | | | PACING:  2-3 Weeks |
| *Unit Focus: Introduces the students to the element of harmony in music. Students will learn basic music theory concepts and how to use the digital tools at their disposal to generate harmonic ideas and progressions.* | | | | |
| STANDARDS AND ELEMENTS | | | | |
| Creating | | | | |
| MSMTC6.CR.4: Share creative musical work (e.g. arrangement, composition, improvisation, mixed-media project, orchestration, sound design) that conveys intent, demonstrates craftsmanship, and exhibits originality.   1. Share compositions and improvisations that demonstrate an accomplished level of musical and technological craftsmanship and the use of digital and analog tools and resources in developing and organizing musical ideas. | | | | |
| Performing | | | | |
| MSMTC6.PR.2: Analyze the structure and context of varied musical works (e.g. arrangement, composition, improvisation, mixed-media project, orchestration, sound design) and their effects on performance.   1. Describe and demonstrate how context, theoretical and structural aspects of the music and digital media/tools inform and influence prepared and improvised performances. | | | | |
| Responding | | | | |
| MSMTC6.RE.1: Choose appropriate music for a specific purpose or situation.   1. Select and critique contrasting musical works (e.g. arrangement, composition, improvisation, mixed-media project, orchestration, sound design), defending opinions based on manipulations of the elements of music, digital and electronic aspects, and the purpose and context of the works.   MSMTC6.RE.3: Support interpretations of musical works (e.g. arrangement, composition, improvisation, mixed-media project, orchestration, sound design) that reflect the expressive intent of creators/performers.   1. Connect the influence of the treatment of the elements of music, digital and electronic features, context, purpose, and other art forms to the expressive intent of musical works. | | | | |
| Foundations of Computer Programming | | | | |
| MS-CS-FCP-3 Utilize computational thinking to solve problems.  3.1 Make observations and organize the concepts of modularity, including functions and methods, as it relates to programming code reusability and cloud computing in the software industry.  3.2 Develop a working vocabulary of computational thinking including sequences, algorithms, binary, pattern matching, decomposition, abstraction, parallelization, data, automation, data collection, data analysis, Boolean, integer, branches (if...then...else), and iteration {loops (For, While)}. | | | | |
| EXAMPLE LESSON PLANS | | | | |
| * L1: What is Harmony? * L2: Improvising Harmony in Minor Keys * L3: Harmony and Rhythm * L3A: Form with fitMedia and Intro to Custom Functions (EarSketch) * L4: Minor Harmony and Rhythm * L4A: Form and Custom Functions (EarSketch) * L5: Adding Harmony to Rhythm, Form, and Bass (Putting It Together) | | | | |
| EXAMPLE ASSESSMENTS | | | | |
| DIAGNOSTIC  Gauge where students are in their learning prior to beginning the lesson. | | **FORMATIVE**  Gauge student progress/growth through ongoing and periodic observation and/or checks for understanding. | **SUMMATIVE**  Gauge student mastery of standards. | |
| * Survey students about their background knowledge of music theory and harmony. | | * Peer discussion and collaboration * Exploration and experimentation with electronic and digital tools and instruments. * Teacher monitoring and in process feedback * Formative harmonic assignments | * Standards-based project rubric. * Unit vocabulary test. | |
| SUPPLEMENTAL RESOURCES | | | | |
| * [Secrets of Songwriting](https://www.secretsofsongwriting.com/2012/02/29/tips-and-tricks-adding-vocal-harmonies-to-a-song/) * [www.chordchord.com](https://chordchord.com/) * [Harmony for Dummies](https://djtechtools.com/2014/07/27/harmony-for-dummies-a-quick-guide-to-adding-chords-melodies-and-basslines-in-key/) * <http://www.mutechteachernet.com/> * [Musicality Now Podcast](https://podcasts.apple.com/us/podcast/musicality-now/id1281031248) * [Ted Talks Music](https://podcasts.apple.com/us/podcast/ted-talks-music/id470623182) * [Song Talk Radio Podcast](https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=964191590) * Unit 4 Vocabulary Terms | | | | |

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