# **Skoog: Project Starter Outline 2 Template**

*Create a high-level outline for the activity which describes the challenge presented to students, applied math (if applicable), headings of “What You Should Know Sections” to include, overview of project steps, and possible Extend Yourself Activities to build out.*

**Technology Name:** Skoog

**Activity Title: Remix a Song**

**Level (1, 2, or 3):** 5th Grade

#### **Math Standards Alignment/Grade Level:** 5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

#### 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

#### 5.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.

**Activity Idea/Challenge Description:** Students will choose a song and remix it by changing the time signature and rewriting the music. Students will multiply their time signature by 1.5 and will rewrite the music using the new time signature.

**What You Should Know (High Level Topics):**

* **What is Time Signature**
* **Writing Music (Music Notation)**
* **Converting Decimals to Fractions**
* **Multiplying Fractions**
* **Adding and Subtracting Fractions**

**Career Connection(s):**

* **DJ/Sound Remixer**
* **Music Producer**
* **Composer**
* **Math Teacher**

**Project/Activity Steps (High Level Steps):**

* **Choose Your Song**
* **Multiply the time signature**
* **Rewrite the song**
* **Test it out**
* **Reflect on how the new time signature changes your song**

**Project Submission Item(s):**

1. Upload a picture of your song rewritten in the new time signature
2. Record and upload your song with the remixed time signature
3. Reflect on the following questions:
   1. How did your time signature change?
   2. How does music relate to math?
   3. How did the new time signature change your song? Was it more interesting? Boring? Which did you prefer, your remix or the original?
   4. Do you think the original lyrics could still be sung along with your remix?
   5. How are beats similar to fractions?

**Extend Yourself Idea(s):**

1. Remix another song
2. Compose a new song using your time signature
3. Use live Loops in garage band to remix your song
4. Explore how changing the scale changes the song