CNU LESSON PLAN FORMAT		
Teacher: <u>M</u>	r. Simmons	Grade Level <u>10th</u>
Course Titl	e <u>High School Music Theory 1</u>	Date 8/10 Apr 2024
Unit Topic_	Sound	
Lesson Topi	c: Beat Frequencies	
SOL Correla	ation: N/A	
Lesson Obje	ective(s): Review the overtone series	and then teach beat frequencies.
Procedures ((including times for each part):	
1. Intro	oductory Activities (including time est	imates):
Review Ove	ertone series with group quiz on differ	ent waves.
	1. Show a basic wave and label am	plitude and frequency
	2. Compare waves with higher and	l lower frequency and amplitude
	3. Review Major chord (use 110 H	z and base frequency)
2. Instr	uctional Activities/Procedures (includ	ling time estimates):
	1. Bring up tone generator	
	a. Play the different frequent	ncies to demonstrate octaves
	b. Play the 330 Hz, 550 Hz	, and 660 Hz to demonstrate the different
	intervals.	
	2. Have a student sing a pitch and	then sing with, but out of tune
	a. Ask how we can tell it's	out of tune.
	b. Lead to the "beat" sound	l going away
	3. Give the equation for beat frequ	ency.
	a. Demonstrate with 441 H	z against 440 Hz as well as 442 Hz, etc.
		iency for the harmonic series are also multiples
	of the fundamental frequency.	- -
3. Clos	ing Activities (including time estimat	es):
	1. Come up with 2-3 frequencies to	o put in the frequency generator.

Instructional Materials:

Basis for Grouping (if grouping is used): N/A

Student Evaluation: How did the students do with the opening activity and did they come up with something interesting sounding for their 2-3 tones in the frequency generator.

Supporting Assignments (Homework):

Adaptations/Accommodations/Differentiation:

Comments about the lesson for revision: