2nd Sound Systems Unit Unit Blueprint

Lesson	Essential & Unit	Benchmarks	Formative and Summative Assessments	Using Assessments to Monitor
	Questions	(Bolded sections indicate portion of	(Unless noted as a Summative Assessment,	Student Learning
	(for conceptual	benchmark addressed)	the assessments are formative and should be	
	benchmarks)		used to guide teaching and learning.)	
Lesson 1:	/	12D(K-2)#1: Describe and compare	Use teacher-generated Team Record Sheets,	Descriptions on Team Record
The Sound	/	things in terms of number, shape,	which are available under "Teacher	Sheet
Museum		texture, size, weight, color, and motion.	Resources" on the electronic curriculum.	Do students select words that
			(See Steps 1-5 on pages 21-23 in Student	accurately (as possible) describe
Pacing		12D(K-2)#2: Draw pictures that	Guide.)	the sounds produced?
Suggestions:		correctly portray at least some features		
Days 1 & 2 –		of the thing being described.		Drawings on Team Record Sheet
Finding Out	/			Do students make legible
about Sound				drawings?
Centers				 Do the drawings include all the
(Session 1 in				parts of the systems?
Teacher's				 Do the drawings accurately
Guide)				portray most of the systems?
Day 3 –	What causes	Related to 4F(K-2)#3: Things that make	Question #4 on page 22 in Student Guide	• Do students' explanations include
Setting Up the	sound?	sound vibrate.	(See page 47 in Teacher's Guide for	the interaction of parts?
Sound Museum			additional information and sample	• To what extent do students
(Session 2 in	How do parts	11A(K-2)#3: When parts are put	questions/dialog to use when interacting with	display an understanding that
Teacher's	work together to	together, they can do things that they	the teams.)	objects that make sound vibrate?
Guide)	make sound?	couldn't do by themselves.		(This will be developmental—
Day 4 –			Poster Presentations (See Step #7 on page 50	most likely, students will not
Checking		12E(K-2)#1: Ask "How do you know?"	in Teacher's Guide.)	make this generalization yet.)
Understanding		in appropriate situations and attempt		• During the Poster Presentation,
(Session 3 in		reasonable answers when others ask the		do students use evidence to
Teacher's		same question.		support their explanations about
Guide)				how they think their system
				makes sound?
Teacher		1C(K-2)#2: In doing science, it is often	Class discussion about the process of sharing	• Do students' comments and
Resources:		helpful to work with a team and to	ideas. (See Step #8 on page 50 in Teacher's	reflections about the process
		share findings with others. All team	Guide.)	reveal an understanding of the
		members should reach their own		value in sharing?
		individual conclusions, however, about		• Do students relate their classroom
		what the findings mean.		sharing to ways scientists share
				information?

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Lesson 2:	What causes	12D(K-2)#1: Describe and compare	Lesson 2 Record Sheet (Use teacher-	Lesson 2 Record Sheet
Making Sound	sound?	things in terms of number, shape,	generated sheet available under "Teacher	Are students able to identify parts
		texture, size, weight, color, and motion.	Resources" on electronic curriculum.)	of the system that move?
Pacing				Do students provide clear
Suggestions:		Introduce 4F(K-2)#3: Things that make	Checking Understanding	descriptions of the motion of the
Days 1 & 2 –		sound vibrate.	Completed independently and collected	parts?
Make Sound			by teacher (Use Teacher-generated sheet	
Systems and			available under "Teacher Resources" on	Checking Understanding
Investigating			the electronic curriculum.)	Are students able to identify parts
Sound Systems			Class discussion of statements (See page	of the system that move?
Day 3-			63 in Teacher's Guide.)	Do students provide clear
Teaching				descriptions of the motion of the
Strategies Steps				parts?
6-9				
Day 4-				
Checking				
Understanding				
Teacher				
Resources:				

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	_		the assessments are formative and should be	Student Learning
	(for conceptual	benchmark addressed)		
7 0	benchmarks)	4E/IZ 0) //0 /El : 1 . 1	used to guide teaching and learning.)	<i>m</i> : 11 1 .G 1D 1
Lesson 3:	What causes	4F(K-2)#3: Things that make sound	Testing Ideas about Sound Record Sheet	Testing Ideas about Sound Record
What Makes	sound?	vibrate.	(Copy teacher-generated sheet, available	Sheet
Sound			under "Teacher Resources," on the back of	The Record Page provides the
		12E(K-2)#1: Ask "How do you know?"	BLM 3-1)	teacher at-a-glance information
Pacing		in appropriate situations and attempt		about students' current
Suggestions:		reasonable answers when others ask the	Class discussion & class charts about what	understanding about sound. If
Day 1 –		same question.	makes sound (See Step #6 on page 71 in	students agree with CQ, they are
Session 1 on			Teacher's Guide.)	most likely confusing what initiates
pages 68-71 in		1C(K-2)#2: In doing science, it is often		sound with what makes sound
Teacher's		helpful to work with a team and to share		(vibrations). Question #2 should
Guide		findings with others. All team members		provide a "window" into students'
Day 2 -		should reach their own individual		current thinking and level of
Session 2 on		conclusions, however, about what the		understanding.
pages 71 & 72		findings mean.		
in Teacher's				Class discussion & Charts
Guide				Do the students understand that
Day 3 -				vibrations produce sound? (This
Session 3 on				is developmental—some students
pages 72 & 73				will understand sound production
in Teacher's				and others will be focused on the
Guide				force needed to initiate the
				sound.)
Teacher				,
Resources:				
Resources.				
3				

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Lesson 4:	What causes	4F(K-2)#3: Things that make sound	A Closer Look Record Sheet (BLM4-1)	A Closer Look Record Sheet
Matching	sound?	vibrate.	(See Notes on Individual Systems on pages	Do students use evidence to
Ideas about			85 & 86 in Teacher's Guide.)	support the idea that the system
Sound		12E(K-2)#1: Ask "How do you know?"		vibrates?
		in appropriate situations and attempt	Sound Starters and Evidence of Vibrations	Are students able to differentiate
Pacing		reasonable answers when others ask the	class charts (See Steps 6 & 7 on page 83 in	between "sound starters" (the
Suggestions:		same question.	teachers guide.)	force used to initiate the
Day 1 –				movement/vibration) and
Session 1				evidence of vibrations?
Day 2 –				
Finish stations				Sound Starters & Evidence of
(if necessary),				Vibrations Class Charts
Steps 6-10 on				During class discussion, do
pages 83 & 84				students use their evidence
				recorded on their sheets?
Teacher				Do students' comments reveal an
Resources:				understanding that vibrations
				cause sound? (Students should
1				understand this for at least the
				objects at stations 2, 3, 4, 6, and
				8.)