Literature Vocabulary	Unit 2, Lesson 2	$1^{st} - 2^{nd}$
habitat	TV Lesson	(P)
oceans		AL.
colorful	Read objectives while pointing to the words in the math	
blend	lesson objectives. After each math object	ive, show children
shore	what that means.	
tide pool		
swamp	Math Objectives:	
lake	• Solve addition and subtraction problems	4
Math Vocabulary	 Recognize fact families. 	•
add	-	
subtract	• Understand what the equal sign means.	
compare	 Identify sums of ten as compatible number 	Ders.
regroup tens	• Use a number line to represent sums and	l differences.
ones	*	
math movie	Language Objectives:	
fact families	0 0 0	
compatible numbers	• Listen to the TV Teacher.	
	• Speak: Explain fact families and how the	ey can help you learn
	basic facts.	
Materials	• Speak: Explain how compatible number	s help you add and
• Unifix or Linking cubes (two	subtract.	1 2
1-color trains per student)	• Read TV Teacher's notes on the TV and	the record sheet
• Fact Family Houses of sums of		
10 from Fact Family Match	• Write the compatible number combination	ons on the number
game	lines.	
• BLM Compatible Numbers on		
the Number Line -3 per	Building Background, Math	
student		
	TEACHER: We have two new objectives to t	
	going to take a closer look at our fact family ho	
Time Clue	going to use number lines. Boys and girls, can	
BB = 2 minutes	what a number line is? (<i>pause, then to Azulito</i>))
CI = 24 minutes		
	AZULITO: Well, it sounds like a line with nur	nbers on it.
AC = 2 minutes		
	TEACHER: That is exactly what a number li	ine is, Azulito, and we
	can use a number line to represent addition and	
ELPS (English Language	we used the cubes.	
Proficiency Standards)		
2A,2B,2F,2I,3A,3E,3H	We're also going to look again at the sums of 1	0 fact families These
CODE (G 1) 1.C	are very special numbers we can call "friendly"	
CCRS (College and Career		
Readiness Standards)	Mathematically we call them compatible num	
	one of our vocabulary words! (Show, say, stud	2 / 2
II.B.1; III.B.1,2,3; IV.A.2,3; IV.B.1,2,3	means that the numbers add together to make 1	0. They are a sum of
MATH	10 fact family.	
I.A.1; I.B.1; VIII.B.1,2; IX.A.1;		
IX.B.1,2; IX.C.1,3; X.A.1,2	We're going to use our fact family sums of 10 l	
CROSS DISCIPLINARY	number lines to model these compatible numb	ers.
1.A.1,2; I.B.1,2,3,4; I.C.1,2,3;		
II.A2		

	Unit 2, Lesson 2	$1^{st} - 2^{nd}$
SMART BOARD	TV Lesson - continued	A34-3
Create the number lines, models, number sentences from fact family houses of 10.	Comprehensible Input, Math	
	TEACHER : Let's lay out all of our sums of 10 doesn't matter what order they are in as long as the fact family we want to work with next. <i>(sho</i>	you can quickly get
	Be sure your two 10-cube trains are handy. (sho	w yours)
	Now, let's take a look at our BLM Compatible Number Line.	Numbers on the
	First of all, take a few minutes, boys and girls, t number lines. They are all the same. What do y number line? Classroom Teachers, please colle the board of chart paper. (<i>Give them a fair amou</i> <i>then you and Azulito talk about the following at</i> <i>on the board.</i>)	you observe on the top ect their thoughts on <i>unt of time to explore,</i>
	 Straight line with arrows at each end – w the arrows at each end means? (<i>The line directions – we're just showing the numb it.</i>) There are straight lines spaced pretty equ numbers under them. These are the numl line. What numbers do we have? (<i>zero th</i>) So (<i>pointing from zero to 1</i>), from here the We have marked off 10 spaces on this nu each space, starting at zero and run your marker to the next number on top of the the distance between the two lines.) There are four number lines for every co family. Why do you suppose we would h for each? Tell your Classroom Teachers, (<i>pause</i>) We have four number lines beca families will have four number sentences represent all of them. You may have seen more attributes of the You are very observant! Let's use all of our strategies available to us now compatible numbers. What are compatible numbers. 	goes on in both bers in a small part of ually apart with bers on the number <i>hrough 10</i>) o here is ONE space. umber line. (<i>Count</i> <i>r finger or some</i> <i>number line to show</i> ompatible numbers fact nave four number lines , boys and girls. use most of the fact s and we want to the line. Good for you!

	Unit 2, Lesson 2	$1^{st} - 2^{nd}$
	TV Lesson - continued TEACHER: Let's start with the sums of Please find that house, boys and girls, an <i>(do so as students find theirs)</i> . This fact number fact family.	nd lay it where you can see it
	Now use the cubes to make this sum of do that? Remember to use two colors. (<i>a of one color, eight of the other.</i>) This train.	Pause, then show yours – two
 Process for this Activity Choose the Sums of 10 Fact Family. Find the fact family house. Make the compatible number train from the cubes that represent this fact family. Represent the compatible numbers fact family on the number line. Write the number sentence above the number line to coincide with the jump lines the numbers represent. 	We have our compatible number fact fa compatible number train.	mily house, and we have our
	Let's use the number line now. There a line. This is one way to use it.	re many ways to use a number
	What do you suppose you'll need to wri four numbers lines <i>(the compatible num</i> one is 2, 8, 10. <i>(Ask students to write on</i> <i>yours.)</i>	bers fact family)? Our first
	We can add in any order we want to. I the addend first, the two. We have to start a zero and make a little dot.) Now we're gone of our water habitat frogs, two space just passing the vertical lines. Count the down with the pencil. Count the space to intersection of two line. Place a dot and arrow that ends on two.	at zero. (Put your pencil at going to jump over just like es. (Make the jump shallow, e space to one, but do NOT dip to two and jump down on the
	AZULITO: That represents our 2!	
	TEACHER : Now we want to add on to do? Tell your teacher where you will sta frog will need to jump now. <i>(pause)</i>	
	We'll start on the two and jump eight sp counting the spaces but skipping over the	· · · ·

	Unit 2, Lesson 2	$1^{st}-2^{nd}$	
	TV Lesson - continued	ATAN	
	That is the first addition sentence of our compatible number fact family to be represented on the number line. Write the number sentence just above the jumping arrows (<i>do so, making sure the 2 is over the 2 line, the</i> + <i>is where the two jumping lines meet, the 8 is over the 8 jumping line and the</i> =10 <i>is over the ten.</i>)		
	AZULITO: And I see why the dot and the lines are important! When I look at your not the dot is where you started. The arrows of me which direction you went. I like this not started the started because the	umber line, I can see that n your jumping lines tell	
Process for this Activity Choose the Sums of 10 Fact Family.	TEACHER : Then let's represent the second addition number sentence for this compatible numbers fact family. What is the second addition sentence? Tell your teacher, boys and girls, then we'll see if Azulito knows (<i>pause</i>). AZULITO: Let's see, our fact family is 2, 8, 10. We have already represented $2 + 8 = 10$, so we need $8 + 2 = 10$. Let's do it! (<i>Repeat</i> <i>the same process.</i>) TEACHER : We have represented both of our addition compatible number sentences for 2, 8, 10. What about the subtraction. Where do you think we should start on the number line for our subtraction problems? Girls and boys, please tell your Classroom Teachers where we should begin. (<i>pause</i>)		
 Find the fact family house. Make the compatible number train from the cubes that represent this fact family. 			
 Represent the compatible numbers fact family on the number line. Write the number sentence above the number line to coincide with the jump lines the numbers represent. 			
Classroom Teachers Circulate the room to make sure hat all students understand how o use the number line to add and	We'll start on the 10! We'll just make our that old habitat frog will be jumping back $10-2=8$. (Read 10 subtract 2 equals 8.) in reverse. The habitat frog jumps from 10 on 8.)	to zero now. Let's represent (Follow the same process	
subtract.			
You will need to complete this assignment during the Follow-up Lesson, using the same format.	0 1 2 3 4 5 6	7 8 9 10	
	TEACHER : This time I'm going to write different $8 = 10 - 2$. Is that OK? Boys and Teacher why that is OK.		
	AZULITO: It's OK because it doesn't masign the answer is on. I can say $10 - 2 = 8$ It's the same thing!		

Unit 2, Lesson 2



TV Lesson - continued

TEACHER: Correct – Now, we have one last subtraction sentence with the compatible numbers fact family to represent on the number line. Boys and girls, tell your teacher what the number sentence is and how you will represent it on your number line. (*Give time, then represent* 10 - 8 = 2 using the same process.)

TEACHER: Well done. Boys and girls, How have we represented our compatible number fact families today? What strategies have we used to model them? *(pause)*

AZULITO: We use cube trains, fact family houses, the number line and number sentences. We used four different strategies today!

(If you have time to do another compatible number fact family, do so; otherwise Classroom Teachers will complete the assignment in the Follow-up Lesson. When you have done all you have time for, continue below. Be sure to end with Azulito explaining something.)

TEACHER: Good thinking, Azulito. You explained that very well. And now, I think you have a little task that you would like to explain to the boys and girls out there. This one sounds a little fishy!

AZULITO: Well, I suppose it is fishy – remember those fish you measured in Lessons 1 and today? Well, I have some questions about what you found out about their measures *(explain task)*.

TEACHER: Thank you, Azulito! These are interesting questions. I can't wait to see how all of you respond!

Objectives: And now before we go, let's review what we have learned today! (*do so*)

Process for this Activity

- Choose the Sums of 10 Fact Family.
- Find the fact family house.
- Make the compatible number train from the cubes that represent this fact family.
- Represent the compatible numbers fact family on the number line.
- Write the number sentence above the number line to coincide with the jump lines the numbers represent.

Azulito's Corner Unit 2, Lesson 2

How did your measurement lab compare to Lesson 1 measurement lab? Did the length of the fish change? Did the number of inch worms it took to measure change from the number of big paperclips it took to measure the fish in lesson 1? Why do you think that is so? BLM - Unit 2, TV/Follow-up Lesson 2

Compatible Numbers on the Number Line

(Three per student)

