#### Literature Vocabulary habitat

oceans colorful blend shore tide pool swamp lake

#### Math Vocabulary

add subtract compare regroup tens ones math movie fact families compatible numbers

#### Materials

- Unifix or Linking cubes (two 1-color trains per student)
- **BLM TM** Fact Family Houses from TM Lesson (TV Teacher should have one filled out with all of the addition sentences.)

# Time Clue

BB = 2 minutesCI = 24 minutesAC = 2 minutes

**ELPS** (English Language Proficiency Standards) 2A,2B,2F,2I,3A,3E,3H

CCRS (College and Career Readiness Standards) ELA II.B.1; III.B.1,2,3; IV.A.2,3; IV.B.1,2,3 MATH 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 CROSS DISCIPLINARY 1.A.1,2; I.B.1,2,3,4; I.C.1,2,3; II.A2

# Unit 2, Lesson 1

## TV Lesson

Read objectives while pointing to the words in the math lesson objectives. After each math objective, show children what that means.

#### Math Objectives:

- Solve addition and subtraction problems.
- Recognize fact families.
- Understand what the equal sign means.

### Language Objectives:

- Listen to the TV Teacher.
- Speak: Explain fact families and how they can help you learn basic facts.
- Speak: Discuss your solution strategies.
- Read TV Teacher's notes on the TV.
- Write the fact families.

# **Building Background, Math**

**TEACHER:** We're going to learn more about Fact Families during this unit. You know, understanding Fact Families can help us in our addition and subtraction. When we know our facts quickly, we can spend more time thinking about the problems they are used in! Did you know boys and girls, that when you know a fact family, you know FOUR different math facts – two addition and two subtraction!

**AZULITO**: Oh, that sounds good to me! But there are only addition number sentences in our Fact Family houses for nine?

# Comprehensible Input, Math

**TEACHER:** Well, then, let's find out those subtraction sentences. Let's make a 2-color train for our first Fact Family house of nine. Let's work on the 1, 8, 9 house. What would that train look like boys and girls? Please make one addition train for this family. *(pause)* 

**AZULITO:** That would be one *(color)* cubes and eight *(color)* cubes. And if I flip the train over, I have eight *(color)* cubes and one *(color)* cube. It's the same train, but the cubes are in a different order.

**TEACHER:** Well done. Boys and girls, I can see that most of you agree with Azulito! Make sure you have a 1 + 8 = 9 train with your two colors of cubes. *(slight pause)* Now, subtract one *(pause)*. How many cubes do you have left?

<b>SMART BOARD</b>	Unit 2, Lesson 1 $1^{st} - 2^{nd}$	
Create the models, number sentences and fact family houses.	TV Lesson - continued	
	AZULITO: That's easy, I have eight cubes left.	
	<b>TEACHER</b> : We had nine cubes, we subtracted one cube, and we have eight cubes left. What would that number sentence look like boys and girls? Please tell your teacher. <i>(pause)</i> The number sentence is $9 - 1 = 8$ <i>(read 9 subtract 1 = 8)</i> .	
	Alright, put your fact family train back together again, This time, subtract the eight cubes. ( <i>do so</i> ) How many cubes do you have left? ( <i>pause</i> ) There is only one cube left. And how would you write that number sentence? Once again, please tell your classroom teacher. ( <i>pause</i> ) $9 - 8 = 1$ ( <i>read 9 subtract 8 = 1</i> ).	
	Find your 1, 8, 9 fact family house. You should already have the two addition sentences for the family on the top floor, or the two lines on top in the house. What are those two addition sentences? Let's read them together. $1 + 8 = 9$ 8 + 1 = 9.	
	Now we have our two subtraction sentences. They'll go on the lower floor of the house. Write the two subtraction sentences on the lower two lines. $9 - 1 = 8$ (9 subtract $1 = 8$ ) and $9 - 8 = 1$ .	
	<b>AZULITO:</b> I see what you mean about knowing FOUR math facts. There are two addition and two subtraction for this house. WOW, all I have to do is remember one little fact family, and I have four different facts. I like this!!	
	<b>TEACHER</b> : Let's investigate more fact families. Find the house for 2, 7, 9. ( <i>Repeat the same process</i> .)	
	(Complete the chart with the subtraction problems using the same format, leaving $0 + 9 = 9$ for last.)	
	<b>AZULITO:</b> We still have one house left. $0 + 9 = 0$	
	<b>TEACHER:</b> We certainly do, Azulito. I left that for last because I wanted the boys and girls to see something very special about zero. Boys and girls, do you remember anything very special about adding and subtracting zero? Tell your classroom teacher what you know. <i>(pause)</i>	
	Let's work with this one just a bit. The model is a little different.	

	Unit 2, Lesson 1	$1^{st} - 2^{nd}$
	TV Lesson - continued	AT AT
	First, let's make the model for $0 + 9 = 9$ . How would and girls? What does that number sentence mean? (pa	I do that boys <i>use)</i>
	<b>AZULITO:</b> It means that I have NO cubes of one coll cubes of another.	or and nine
	<b>TEACHER</b> : Correct – everyone please make a 0 + 9 <i>make yours</i> ). I have no <i>(color)</i> cubes, and I have nine That makes nine cubes in all. And my number sentence It's harder to see the flip, but imagine that the zero co <i>(flip)</i> Now what number sentence do we have?	train (pause and (color) cubes. ce is $0 + 9 = 9$ . lor is at the end.
	AZULITO: Nine of one color and none of the other of would be $9 + 0 = 9$ .	color. That
	<b>TEACHER</b> : Well done. Boys and girls, can you tell Teacher what one of the subtraction sentences would $9 - 0 = 9$ . And the other subtraction sentence? <i>(pause, pause)</i>	your Classroom be $(pause)$ ? 9 - 9 = 0.
	Hmm, looking at these four number sentences, can ye special about the number zero? <i>(bit of a pause)</i>	ou tell what is so
	<b>AZULITO:</b> Well, if I don't add anything to my cube what I started with – zero means NO CUBES. And if anything from my cubes, then I have what I started with NO CUBES.	es, then I have I don't subtract ith. Zero means
	<b>TEACHER:</b> Good thinking, Azulito. You explained When you add zero to any number or subtract zero fro you still have the same number. I know that I heard the thinking from many of the boys and girls out there! G	that very well. om any number, nat same REAT JOB!
Azulito's Corner Unit 2 Lesson 1 Tell us all the different strategies used today to solve your CGI problem. Share your class posters if you can.	<b>AZULITO:</b> And speaking of explaining our thinking explain the Azulito Corner to you now <i>(do so)</i> .	, I'd like to
	<b>TEACHER:</b> Thank you, Azulito! We love to see you solving problems!	r strategies for
	<b>Objectives:</b> And now before we go, let's review what learned today! ( <i>do so</i> )	t we have



