|  | Unit 2, Lesson 3 3-4 |
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| Literature Vocabulary <br> savanna <br> habitat <br> weather <br> lightning <br> burrows <br> shrubs | TV Lesson <br> Read objectives while pointing to the words in the math lesson objectives. After each math objective, show children what that means. <br> Math Objectives: |
| Math Vocabulary <br> factors <br> products <br> multiplication <br> division <br> fact family <br> area model <br> array model | - Model factors and products using area and array models. <br> - Represent multiplication and division situations in picture, word, and number form. <br> - Use patterns and relationships to develop strategies to remember basic multiplication and division facts, such as fact families. |
| TV Materials: <br> - Student "Area Squares" BLM from Lesson 2 <br> - 60 base ten units per student <br> - Metric ruler 1 per student <br> - BLM cm Graph Paper | Language Objectives: <br> - Use the math vocabulary during the activity. <br> - Discuss solution strategies. <br> Building Background, Math <br> Let's take a look at our word wall to see which of our math vocabulary we have already seen demonstrated in the lessons. Boys and girls, tell your teacher which words we have already used in our |
| Time Clue <br> $\mathbf{B B}=1$ minutes <br> $\mathbf{C I}=26$ minutes <br> AC $=1$ minute | lessons. (Give them time: all but division.) <br> Well, that just leaves one vocabulary word for us: division. And we are going to work with division today. |
| ELPS (English Language <br> Proficiency Standards) <br> 1D, 1G, 2D, 2I, 3C, 3E, 3I <br> CCRS (College and Career | In Lesson 2 you used the area model to find the product of the number of rows in the rectangle times the number of columns in the rectangle. Let's take a look at the area poster that we did together -3 cm by 5 cm. |
| Readiness Standards) <br> Math <br> I.B.1; I.D.1; VIII.A.1,2,3,4,5; <br> I.B.2; IX.A.1,2,3; IA.B.1,2; <br> IX.C.1; X.A.1; <br> Cross-Disciplinary <br> I.C.1,2,3; I.D.1,2,3,4; I.E.1,2 | (Remind students of the two rectangle dimensions, and of the multiplication number sentence that represents each.) And we wrote on our record sheet that the factor, factor, product of each of these rectangles is $3,5,15$. <br> PIRATE: Yes, because the rectangles didn't change size. You just turned, or rotated the second one so it was tall and skinny instead of short and fat. |
| Classroom Teachers Please circulate the room to see that students are not having difficulty following directions. | TEACHER: Just as these two rectangles are related, so are the number sentences. They are part of a family, a fact family, and we're going to find two more members of that family today. |


|  | Unit 2, Lesson 3 <br> TV Lesson - continued |
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|  | Comprehensible Input <br> We can use these rectangles, the area model to find all sorts of <br> information. We know that we can find the AREA, or how many <br> squares it takes to fill up the inside of the shape, when we know the <br> width and the length. |
|  | But we can also find a missing side measurement if we know the total <br> area and the measure of the other side. |
| Let's try one. |  |



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| Classroom Teachers: <br> Your follow-up task is to <br> complete the assignment. <br> Students will need their other <br> three area posters from Lesson 2. | TV Lesson - continued <br> During your follow-up lesson, you will find the division <br> representations for the factor, factor, product fact family on the rest of <br> your area posters. |
|  | Practice this really well, boys and girls, because we are going to use a <br> similar method very soon with base ten blocks to multiply and divide <br> 2-digit numbers by 2-digit numbers! |
| Arthimus Portio's Corner <br> Lesson 3 - Measurement <br> You used an area model and an <br> array model today in your <br> measurement lab. Probably you <br> talked about the way the two <br> strategies are alike and different. <br> Share your thoughts with us. | PIRATE: (One of your "punny"" remarks and explain the task.) |
| Objectives: And now before we go, let's review what we have |  |
| learned today! (do so) |  |

BLM-TM Unit 2, Lesson 3
1 cm Graph Paper

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