| Literature Vocabulary <br> - habitat | Unit 2, Lesson 1 <br> Kinder |
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| - desert | TV Lesson |
| - animals <br> - energy | Read objectives while pointing to the words in the math |
| - energy | lesson objectives. After each math objective, show children |
| - home | what that means. |
| - plants <br> - sleep | Math Objectives: |
| - water | - Add and subtract to solve a word problem. |
| Math Vocabulary |  |
| - add <br> - join | Language Objectives: |
| - join <br> - addition | - Listen to the word problems. |
| - subtract | Speak: Tell your Classroom Teacher the math movie you see. |
| - separate | Read the vocabulary words we will use. |
| - subtraction |  |
| - strategy | Building Background, Math |
| Materials | TEACHER: What fun, boys and girls, you are learning about the |
| - Bug counters - 10 per student <br> - BLM Desert Storyboard <br> - BLM Desert Story Strategies | desert! The desert is a very special habitat, with very special plants and animals that can live there. It's hot, it's cold, and there isn't much water -- it's very, very dry! |
| Time Clue <br> $\mathbf{B B}=2$ minutes <br> $\mathbf{C I}=24$ minutes | AZULITO: Oh, I have seen some very beautiful pictures of the desert. I'll bet all of those animals would have some very good stories to tell us if they could speak human language! |
| AC = 1 minute ELPS (English Language | TEACHER: Yes, Azulito, I'll bet they would! Stories - that is just what we are going to tell today, Azulito. Stories! The boys and girls have a storyboard, and they have bug counters. We are going to make math stories today about their bugs in the desert. |
| Proficiency Standard) |  |
| 2C,2B, 2D, 2I, 3G, 3H,4C,4G,4J | We will be looking at some very important ACTIONS today, boys and girls. These actions will tell us whether we JOIN our bugs |
| $\begin{aligned} & \text { CCRS } \\ & \text { Math } \end{aligned}$ | together, or whether we SEPARATE them apart. Each of you will use your own STRATEGY to solve the problem. |
| VIIIB.1,2 VIIIC. 1 IX.A,1,2,3 | AZULITO: What is a strategy? |
| Cross-Disciplinary <br> I.A.1.2 I.B.1,2,3 I.C.1,2,3 <br> I.E.1,2 | TEACHER: A strategy is the way that we use to solve a problem. We listen to the problem; we see a math movie in our mind to see the action in the movie, and then we make a plan and use a STRATEGY to solve the problem. |


|  | Unit 2, Lesson 1 <br> TV Lesson - continued <br> SMART Board <br> Display the Storyboard and <br> impose the words as things are <br> identified. |
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| And we are going to use our storyboard to help us create our story <br> problems. Let's look at the storyboard together. <br> You looked at the storyboard during your classroom lesson. Let's <br> name some of the things we see so we can use those words in our <br> stories. What do you see, Azulito? (Show the Storyboard on the <br> SMART board if possible - impose the names of things as you talk <br> about them. You can highlight those areas when you use them in the <br> story problems.) |  |
| AZULITO: Oh, the first thing I see is that big prickly pear cactus |  |
| right at the front of the picture. It has thorns that stick you if you get |  |
| too close! |  |
| TEACHER: Yes, it does. Boys and girls, did you recognize the |  |
| prickly pear cactus? We have a lot of that in South Texas! |  |
| And this bush that is on the right just above the cactus is a sage - it's |  |
| called a bursage (pronounced "burr-sage.") |  |
| AZULITO: I can see the gritty dirt between the cactus and the |  |
| bursage. It looks like a little path that goes into the brush behind the |  |
| bursage. |  |
| TEACHER: Yes, I see that, too. We can call that our path! On the |  |
| side of this bushy hill you can see lots of saguaro (pronounced sa- |  |
| huar-o) cactus. They only grow in the Sonoran Desert. |  |
| AZULITO: And I see mountains in the background, and I see a |  |
| beautiful blue sky. |  |
| TEACHER: Yes, this picture must have been taken in the mountains |  |
| of the desert. That is why you see so many bushy plants close |  |
| together. They get more rain up there than on the lower part of the |  |
| desert. |  |
| Comprehensible Input, Math |  |
| Alright, we have lots of places now that we have identified for our |  |
| different stories. Are you ready, boys and girls, to solve story |  |
| problems? |  |
| Have your counters ready. Listen the first time I tell you the story. |  |
| Look for the math movie in your mind. What are the bugs doing in |  |
| our story? Do you have to join them or separate them? Let's get |  |
| started. |  |


| Classroom Teachers <br> Circulate the room to make sure students are modeling the problem. <br> TV Teachers SMART Board Be sure you are modeling on the smart board or with the storyboard and counters. | Unit 2, Lesson 1 <br> Kinder <br> TV Lesson - continued |
| :---: | :---: |
|  | Listen to the story for the math movie: <br> There were four bugs climbing on the prickly pear cactus eating food. Three more bugs crawled up the cactus to eat food. How many bugs were on the cactus to eat food? |
|  | Get your bug counters ready. Where is this story on the story board? (pause) On the prickly pear cactus. Now listen to the story again, and model the math movie with your bug counters. <br> There were four bugs climbing on the prickly pear cactus eating food. Three more bugs crawled up the cactus to eat food. How many bugs were on the cactus to eat food? (Pause for students to solve the problem.) |
|  | I have three strategies for solving that problem. These are not the only strategies. You might have another one. (Model each step.) <br> There were four bugs climbing on the prickly pear cactus eating food. That means I need to have bugs on the cactus. <br> Three more bugs crawled up the cactus to eat food. Now \# more bugs join them. <br> How many bugs were on the cactus to eat food? <br> - First I'm going to model the math move. The action in the story told me that we are joining two sets of bugs. I can count them all: $1,2,3,4,5,6,7$. There are seven bugs on the cactus to eat food. <br> - I can also draw a picture of what I did. I'll let little dots be my bugs. Four bugs would be four dots, and three bugs would be three dots. The math movie showed me that the bugs are joining together on the cactus. Again, I can count: $1,2,3,4,5$, 6, 7. <br> - Finally, I can use a number sentence as my strategy: $4+3=7$. (Write the numbers under the appropriate part of your picture, i.e., the four under the four dots, then a + sign, then the three under the three dots and an equals sign seven.) <br> Was your strategy different than my strategies? (pause) Show your teacher your strategy for solving this problem. (longer pause) <br> OK, we're going to work a few more. Then I have a record sheet for you so that you can also draw a picture and use a number sentence. But for right now, you can model. Be careful, though, because I can be tricky with my math movies! |

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\begin{array}{|l|l|}\hline & \begin{array}{l}\text { Unit 2, Lesson 1 } \\
\text { TV Lesson - continued }\end{array} \\
\begin{array}{l}\text { Use the same process for all of } \\
\text { the problems. } \\
\text { - Read the story for students to } \\
\text { see the math movie in their } \\
\text { minds. } \\
\text { - Read a second time for } \\
\text { modeling. } \\
\text { - Debrief by showing: } \\
\text { a. Modeling } \\
\text { b. Pictures with dots } \\
\text { c. Number sentence that } \\
\text { matches the picture drawn. }\end{array} & \begin{array}{l}\text { Let's move over to our path. Here is our path. This will be where our } \\
\text { next story takes place. }\end{array} \\
\text { (Follow the same format for this problem.) } \\
\text { (Debrief in the same fashion.) } \\
\text { Eught bugs were crawling in a row down the path. Five of the } \\
\text { path? }\end{array}
$$\right\} \begin{array}{l}Let's climb up one of the mountains this time. You may choose any \\
of these mountain peaks for your bugs to climb. \\
Nine bugs were walking up the mountain. Four more bugs flew in \\
to walk up the mountain with them. How many bugs walked up \\

the mountain?\end{array}\right\}\)| Now let's go into the sky. Do you have insects that fly? If not, just |
| :--- |
| find some and pretend. |
| Twelve bugs were flying in the blue sky. Nine of the bugs landed |
| on the top of one of the mountains. How many bugs were still |
| flying in the blue sky? |


|  | Unit 2, Lesson 1 <br> TV Lesson - continued |
| :--- | :--- |
| Classroom Teachers: <br> Please finish this assignment if <br> the TV Teacher does not have <br> time to do so. | 4.Thirteen bugs were getting energy by eating the bursage. Nine <br> of them felt they had lots of energy and flew away. How many a straight line up to the top of the <br> marching up the saguaro cactus? <br> bugs were still eating to get energy? <br> Azulito's Corner <br> Tell us all the different strategies <br> used today to solve your CGI <br> problem. Share your class posters <br> if you can. <br> AZULITO: Oh, that was fun! And you know, the students did <br> something like this during their Daily Routines - they solved CGI <br> problems. (Explain the Azulito Corner Task.) <br> TEACHER: Thank you, Azulito! It will be a lot of fun to see so <br> many posters online! We'll be looking for your class to send in <br> several copies! |
| During your Follow-up Lesson you are going to be creating word <br> problems for the story board. We have practiced problems here, and <br> you've seen how the problems can sound. You are going to make a <br> book of your problems that you create during this unit. We'd love to <br> see some of your problems online, too! |  |
| Objectives: And now before we go, let's review what we have |  |
| learned today! (do so) |  |



Distribute AFTER TV lesson has begun - TV Teacher will direct you to do so (one per student.)
My name is $\qquad$
$\square$


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