

Under the Sea - Adding and Subtracting

WebQuest Description: Fred the fantastic fish is throwing a party under the sea! Can you use your adding and subtracting skills to help Fred find out how many of his friends will be coming to the party?

Grade Level: K-2

Curriculum: Math

Keywords: addition, subtraction, sea, fish

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Introduction

Fred the fantastic fish is throwing a party under the sea! He wants to invite all of his friends: the turtles, the starfish, the salmon, the clown fish, the angel fish, and the sea horses. But Fred has a problem! Right before his party, some of his friends could not make it! Then, some of his friends invited more to come. Fred needs to figure out how many of his fantastic friends are coming to the party! Can you use your adding and subtracting skills to help Fred find out how many of his friends will be coming to the party?

Tasks

By reviewing the addition and subtraction video, you will understand that adding means putting together and subtracting is taking away! When you are exploring the sea with the different addition and subtraction games, you will use the pictures in the games to use your adding and subtracting skills! After helping all of the fish friends in the sea, you will be able to help Fred the fantastic fish figure out how many of his friends will be coming to his party by using addition and subtraction to make number sentences.

Process

Before we start to help Fred the fantastic fish for his party, you will practice your addition and subtraction skills. Make sure to bring and use your math journal to record your addition and subtraction practice. On the first clean page in your math journal, write your name and the title Under the Sea at the top of the page.

1. Watch the video 1: Adding and Subtracting Song below by clicking the play button. At the top of your page in your math journal, write the number 1. Write down what addition means in your own words. Then, write the number 2. Write down what subtraction means in your own words.
2. Click and go to the 2: Addition Game with Pictures below. Start the game by clicking the Go button, and then the arrow. For each addition problem, you can move and count the pictures in the box. Click on your answer. To go to the next problem, click the arrow. In your math journal, write down 5 addition problems that you worked on.
3. Click and go to the 3: Aquatic Speedway Game below. Start the game by clicking the Play button. Then, you will pick the bubble that say 2-10. Choose an animal to race with. The game will start with an addition problem at the top of the screen. You will need to click on your answer on the bubbles. You will be able to see which problem, and how many problems you got correct. In your math journal, create and write down 5 addition problems. Each problem should use different numbers.
4. Talk and share with your math pal to see if you and your pal correctly wrote down your addition problems.
5. Click and go to the 4: Snagger's Subtraction Pond Game. Start the game by clicking the Play button. Then, you will pick the group that says 3-7. Each subtraction problem will be at the bottom of the game. You will click on your answer on the signs. To go to the next problem, Snagger will swim by and change the problem for you. In your math journal, write down 5 subtraction problems that you worked on.
6. Click and go to the 5: Fantastic Fish Shop Game. Start the game by clicking on the Hard button. Choose your background and type of fish tank. Then, click the Start button. The subtraction problems will be at the top of the screen. Start with the problem on the bottom first, and then drop the net into the fish tank with the correct answer. Then you will do the same for the second subtraction problem on the top. To go to the next problem, the customer in the fish shop will say thank you and leave. In your math journal, create and write down 5 subtraction problems. Each problem should use different numbers.
7. Talk and share with your math pal to see if you and your pal correctly wrote down your subtraction problems.
8. Click and go to the 6: Colorful Addition and Subtraction Game. Start the game by choosing and clicking the addition or subtraction sign. Then pick a practice number from the box. To begin, click the Start button in the green paint. For each problem, you will add or subtract to get your answer. Record your answer at the bottom by typing in the correct answer. Then click the Enter button on the keyboard. To play again, click the Reset button in red paint. In your math journal, create and write down 3 addition sentences and 3 subtraction sentences using numbers 0 through 20. Each problem should use different numbers sentences.
9. Talk and share with your math pal to see if you and your pal correctly wrote down your addition and subtraction sentences.
10. You are ready to help Fred with his party! Ask the teacher for the Fred the Fantastic Fish! paper. Follow the directions given on the paper, and complete it by yourself.

Evaluation

The student will be evaluated and assessed based on their knowledge and understanding of addition and subtraction, completion of webquest, completion of Fred the Fantastic Fish! paper, and participation with their math pal. The evaluation and assessment will total 100%

| Category and Score | Beginning | Developing | Great | Outstanding | Score |
|--------------------------------|---|---|---|---|-------|
| Knowledge | The student's work shows no understanding of concepts related to addition and subtraction. | The student's work shows limited understanding of concepts related to addition and subtraction with 60% accuracy. | The student's work shows substantial understanding of concepts related to addition and subtraction with 80% accuracy. | The student's work shows complete understanding of concepts related to addition and subtraction with 100% accuracy. | 35% |
| Webquest Completion | The student did not complete the interactive activities and did not write in their math journals. | The student had limited completion of interactive activities and wrote few of the answers in their math journals. | The student completed most of the interactive activities and wrote most of the answers in their math journals. | The student completed all of the interactive activities and wrote all of the answers in their math journals. | 25% |
| Fred the Fantastic Fish! Paper | The student did not complete the paper. | The student completed the paper with limited accuracy. | The student completed most of the paper with accuracy. | The student completed the entire paper with accuracy. | 25% |
| Participation | The student had difficulty working with their math pal in checking their work. | The student worked with their math pal in checking their work on only one checkpoint. | The student worked well with their math pal in checking their work on two checkpoints. | The student worked very well with their math pal in checking their work on all checkpoints | 15% |
| | | | | Total Score | |

Conclusion

You did a great job! By exploring the sea, you were able to use your awesome addition and subtraction skills to help Fred the fantastic fish. You successfully understood addition and subtraction, used pictures to help you, and made great number sentences! Talk and share with your math pal what you learned through the Under the Sea Webquest, and what you liked about it.

Teacher Page

The objective of this webquest is that a student will be able to model and create addition and subtraction problem situations with concrete objects and write corresponding number sentences as well as to use concrete and pictorial models to apply basic addition and subtraction facts. Texas Essential Knowledge and Skills (TEKS)(3) Number, operation, and quantitative reasoning. The student recognizes and solves problems in addition and subtraction situations. The student is expected to:(A) Model and create addition and subtraction problem situations with concrete objects and write corresponding numbers sentences; and(B) Use concrete and pictorial models to apply basic addition and subtraction facts (up to $9+9=18$ and $18-9=9$).NCTM Standards: Grades Prek-K - 2In prekindergarten through grade 2 all students should:-Understand various meanings of subtraction and addition of whole numbers and the relationship between the two operations; and-Understand the effects of adding and subtracting whole numbers.

Standards

Credits

Other