

LESSON PLANS: ALBERTA

Grade 2: Number

 45 MINS

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 Mathletics

General Outcome:

- Develop number sense.

Specific Outcomes:

- Demonstrate understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by:
 - creating and solving problems that involve addition and subtraction
 - using personal strategies for adding and subtracting with and without the support of manipulatives.



ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Teacher notes from "3 Ribbons"
- ✓ Student handout: "3 Ribbons"
- ✓ Math journals
- ✓ Computers/mobile devices



ASSESSMENTS

- ✓ Observation
- ✓ Participation
- ✓ Reviewing completed "3 Ribbons" student worksheet
- ✓ Reporting results within the Teacher Console of Mathletics for curriculum and Live Mathletics results



ACCOMMODATIONS/ MODIFICATIONS

- ✓ Provide students with ribbons for manipulative.
- ✓ Encourage students to click on "Something Easier" and "Something Harder" within the Mathletics curriculum activities.



EXTENSION OF LEARNING

- ✓ Problem Solving game under Subtraction
- ✓ Curriculum activities
- ✓ Live Mathletics Level 1-2

Introduction to Lesson

 10 MINS

Teacher Background:

Review the teacher notes from the Dr. Small eBook. This is located in the **Teacher Console > eBooks > Grade 2 > 3 Ribbons**

After clicking on the eBook, options will show up on the far right; click on the Teacher Notes.

Play video from "3 Ribbons" on your interactive whiteboard for the students. The video is located in the Mathletics Teacher Console under eBooks. This will initiate the thought process for computational learning based on a visual. This is to start a discussion but not to solve the question. Students will have the opportunity to solve the question during the lesson.

Ask students for further extension to get them to start thinking about how they can solve the problem:

- Do you think that the shortest ribbon could be 80 cm long? Why or why not?
- Do you think that the longest ribbon could be 50 cm long? Why or why not?
- Could one ribbon be 5 cm long? Why or why not?
- Could one ribbon be twice as long as another?
- What strategy did you use to come up with solutions?
- Once you have a solution, how could you use it to create another one?

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The Lesson

 30 MINS

eBook: 3 Ribbons

- Display the "3 Ribbons" eBook on the interactive whiteboard. Within the eBook, click on the interactive on the far right. Click on the "See Question" tab. Discuss some strategies students can use to solve the problem. Teachers can access Problem Solving strategies under eBooks, Problem Solving tab on the far right. Once you click on the Problem Solving tab, there will be three books to choose from. For grade 2, click on the Level 1 Problem Solving booklet.
- The strategies discussed in the Problem Solving eBook are; Read, plan, work and check, Draw a diagram, Look for patterns, Act it out, Trial and error, Make a list, Estimation, Work backwards, and Open ended. Discuss strategies with students and allow them to work in groups/pairs to solve the problem.
- **Reinforcement:** Using computers or mobile devices, students complete curriculum activities in the Student Console.

Suggested activities:

- Additive Addition
- Simple Subtraction
- Subtract Numbers
- Related Facts 1

- **Extra-time activity/cross-curriculum activity:** Mystery Number. Pick a two-digit number and create hints for classmates to figure out the number. Have the students create a poster displaying hints on what the number could be. Encourage students to use number sentences, pictures, or words. Teachers can implement rules such as, a minimum of 4 hints, you cannot use any numbers from your mystery number, has to be at least a 2-digit number, etc.



After the lesson

 5 MINS

- Have the students reflect in their journals about the lesson.
- What strategies did they use?
- Which ones did they find to be helpful in solving this problem?
- Or create a "What stuck with you today?" board.
- Students write their responses on sticky notes and place them on this board. These sticky notes can be reviewed with the class at the end of the week.



For more information contact our friendly team...

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