

# LESSON PLANS: SASKATCHEWAN

## Grade 2: Pattern and Relations

 45 MINS

powered by

 Mathletics

### Outcome: P2.3

- Demonstrate understanding of equality and inequality concretely and pictorially (0 to 100) by:
  - relating equality and inequality to balance
  - comparing sets
  - recording equalities with an equal sign
  - recording inequalities with a not equal sign
  - solving problems involving equality and inequality

### Introduction to Lesson

 10 MINS

**Ask students:** When is something balanced? Unbalanced?

Prompt questions about weighing objects on a scale. Then have a class discussion about what they think or know about the terms equal and inequality. Display this on a whiteboard/poster paper. On the interactive whiteboard, go to

**Mathletics Teacher Console > Demonstrations > Concept Search.**

Search equal and unequal. These slides will display the definitions and symbols and give examples. Have the students brainstorm situations where they could use these symbols, or where they have seen them before.

Display examples on the board and have students figure out which symbol to use.

### ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Mathletics student logins
- ✓ Student handouts from eBooks
- ✓ Problem Solving page
- ✓ Classroom manipulatives
- ✓ Computers/tablets
- ✓ Math journals

### ASSESSMENTS

- ✓ Observation and participation
- ✓ Review completed worksheets
- ✓ Review journal responses

### ACCOMMODATIONS/ MODIFICATIONS

- ✓ Allow student to access manipulatives to help create patterns.
- ✓ Create heterogeneous grouping.
- ✓ One-on-one with the teacher

### EXTENSION OF LEARNING

- ✓ Problem Solving Games
- ✓ Curriculum activities
- ✓ Explore Rainforest Maths
- ✓ Live Mathletics

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### The Lesson

 30 MINS

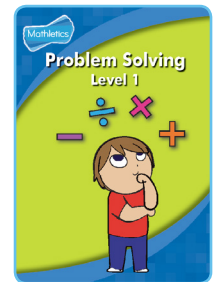
- **Discover:** Hand out Problem Solving page from eBooks. This is located in  
**Teacher Console > eBooks > Problem Solving > Level 1.**

The worksheet is located under "Open-ended" worksheet 6. This worksheet will allow students to solve a problem about objects being balanced or equal. Have students record their answers. Open class discussion about answers and strategies.

#### Extension questions:

- What if we wanted to make the scale unbalanced or unequal?
- What if we doubled the pile of books?
- What pile of books can be added to balance it now?
- Can you recreate this problem using only numbers?
- What would that look like? What symbols can we use while solving this problem?

Ask students to flip the page over and create their own problem using pictures. They can create a problem about either equality or inequality.



- **Explore:** Mathletics—Students can explore within Mathletics. The area they should focus on is **Rainforest Maths**, Grades 2 and 3, algebra; and **Concept Search** and **Problem Solving** games under Balance.
- **Reinforcement:** eBooks—Students are to complete the pre-selected pages. Teacher can place manipulatives to help support various learning styles. Recommend: **eBooks > Grade 2 > Patterns and Relationships**, pages 18–25, and **Grade 3 > Patterns and Algebra** pages 13–18.
- **Extra-time activity/cross-curriculum activity:** Students can create their own balance scale. This is created with a hanger, hanging a cup attached to string from each end of the hanger. Students can use various objects in the classroom and record what is equal and unequal.

### After the lesson

 5 MINS

- Review the symbols for equal and unequal. What strategies students use?
- How can they use these symbols with numbers, words, pictures and sounds?



For more information contact our friendly team...  
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