

# LESSON PLANS: SASKATCHEWAN

## Grade 3: Statistics and Probability

 45-50 MINS

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### Outcome: SP3.1

- Demonstrate understanding of first-hand data using tally marks, charts, lists, bar graphs, and line plots (abstract pictographs), through:
  - collecting, organizing, and representing

### Introduction to Lesson



10-15 MINS

#### Teacher Background:

This lesson will allow students to research, collect, record, and share data. Please have various resources for the students to explore along with their student Mathletics accounts.

If you have not introduced the term data, you can explore the concept in Concept Search. Ask the class:

- What are some ways we can display data?
- How can we collect the data?
- What are some types of graphs?

The graphs the students are going to research are tally tables, charts, lists, bar graphs, and line plots. Have the students fill out a KWL chart before they start.



#### ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Mathletics student logins
- ✓ Classroom manipulatives
- ✓ Computers/tablets
- ✓ KWL chart handout
- ✓ Resources for students to explore



#### ASSESSMENTS

- ✓ Observation
- ✓ Participation
- ✓ Group work
- ✓ Completion of the research project
- ✓ Reviewing the KWL chart
- ✓ Extra assessments within the "Chance and Data" teacher eBook, pages 26-32.



#### ACCOMMODATIONS/ MODIFICATIONS

- ✓ Create heterogeneous grouping and assigning students certain roles.
- ✓ Provide students with certain resources to limit research.
- ✓ Provide visual models of the graphs and questions.



#### EXTENSION OF LEARNING

- ✓ Grade 3 "Chance and Data" eBook, pages 10-21
- ✓ Curriculum activities
- ✓ Explore Rainforest Math (Grade 3: graphs).

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### The Lesson

30 MINS

#### Research

- **Background for teacher**—The first part of the lesson will introduce the graphs/charts that students will research. In the second part of the lesson, students will collect and create a chart based on the charts they research.
- **Before starting the lesson:** Discuss ways students can display their research, such as posters, journals, pictures. For this project, teachers can implement requirements that students need to fulfill: for example they need to define all the charts, must have pictures, and decide what data is best represented in each chart. Students can work in pairs or groups.
  - o For the research, students can explore within the Mathletics Student Console in Concept Search and Animated Maths Dictionary. Student can also access other resource in the classroom, such as the main math resource.
  - o In the second part of the lesson, students will collect data and represent it in one of the charts they researched. They must create a question about Mathletics.



#### For example:

- What is your favorite parts of Mathletics?
- What is your favorite item to buy with credits?
- What countries have you played against in Live Mathletics?
- What Times Table Toons video do you like the most?
- What types of certificates have you earned?

- **Reinforcement:** Students can work on curriculum activities within Mathletics. Suggest activities are: Tally Charts, Column Graphs, Reading from a Column, Sorting Data, Making Graphs, Bar Graphs 1.
- **Extra-time activity/cross-curriculum activity:** Provide each group of students with a bag of M&M's or Skittles. Have the students sort and display their data in the graph they think would work best.

### After the lesson

5 MINS

- Discuss with students what some interesting facts are that they learned during their research. Do they have similarities or differences? Review the charts names and the key differences. Students can finish KWL chart.



For more information contact our friendly team...

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