

# LESSON PLANS: SASKATCHEWAN

## Grade 3: Pattern and Relations

 45 MINS

powered by

 Mathletics

### Outcome: P3.1

- Demonstrate understanding of increasing and decreasing patterns including:
  - observing and describing
  - extending
  - creating patterns using manipulatives, pictures, sounds, and actions.

### Introduction to Lesson

 10 MINS

#### Teacher Background:

Provide students with manipulatives and ask them to create patterns. Ask what kind of patterns they can create. Give students some time to create and discuss their patterns.

On the whiteboard, write down the term increasing patterns and ask what they think this term might mean. How can we create increasing patterns or growing patterns? Create a pattern on your interactive whiteboard showing the first two figures and ask if they know how to find the next two figures.

### ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher and student logins
- ✓ Teacher notes from “Build a Number”
- ✓ Base ten blocks
- ✓ Student handout for “Build a Number”
- ✓ Math journals
- ✓ Computers/mobile devices

### ASSESSMENTS

- ✓ Observation and participation
- ✓ Reviewing completed “Build a Number” student worksheet
- ✓ Reporting results within the Teacher Console of Mathletics for curriculum

### ACCOMMODATIONS/ MODIFICATIONS

- ✓ Provide manipulatives.
- ✓ Encourage students to click on “Something Easier” and “Something Harder” within Mathletics curriculum activities.
- ✓ Teacher can work with a small group of students.

### EXTENSION OF LEARNING

- ✓ Rainforest Maths activities within Grade 3, Number
- ✓ Curriculum activities
- ✓ Live Mathletics Levels 3 and 4

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### The Lesson

 30 MINS

#### Centres

- **Background for teacher**—For the eBook centre, please review which pages you would like the students to complete. Depending on how much work students can get done with each centre, rotation can occur about every 10 minutes. Groups will vary depending on class size.



- o **Centre 1: Rainforest Maths**—On the interactive whiteboard, show **Teacher Console > Demonstrations > Rainforest Maths**, Grade 3, Algebra, Patterns, 10s, 100s, and other number patterns. These show patterns found using numbers. Have students take turns answering the questions on the whiteboard. Students record the questions and answers in their journals.
- o **Centre 2: Computers/tablets**—These activities are located in the Mathletics Student Console under the Patterns and Relations curriculum activities. Suggested activities: Counting Forward Patterns and Increasing Patterns.
- o **Centre 3: eBooks**—Students are to complete the pre-selected pages. Teachers can place manipulatives to help support various learning styles. Students can complete in pairs or individually, recommended pages 1–9.

- **Extra-time activity/cross-curriculum activity: Things That Grow**—Students create artwork of things that grow. Students can paint or use construction paper to display this artwork. They are to create a few stages of the thing to show how it is growing. For example, a student can display the first stage of a flower growing without petals, the next image with 3 petals, the next with 6 petals, and so forth.

### After the lesson

 5 MINS

- Discuss some of the patterns students came across during today's lesson.
- What are some strategies they used to help solve the questions?
- Exit card: Have each student create an increasing body percussion pattern as they leave the room.



For more information contact our friendly team...  
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