

LESSON PLANS: SASKATCHEWAN

Grade 1: Pattern and Relations

 45 MINS

powered by

 Mathletics

Outcome: P1.1

- Demonstrate an understanding of repeating patterns (two to four elements) by:
 - describing
 - reproducing
 - extending
 - creating patterns using manipulatives, diagrams, sounds, and actions.

Introduction to Lesson

 10 MINS

Teacher Background:

On the interactive whiteboard, bring up Concept Search from the **Teacher Console > Demonstrations > Concept Search > Concept Search**.

Search patterns and click on the first slide; there will be a few visuals. This slide can be maximize to view by clicking on the square and arrow icon located at the bottom right-hand corner.

Display the first slide and ask the students what they are noticing.

- What are the fruits creating?
- What are the snap cubes creating?
- How are they similar and how are they different?

The next slide would show the patterns with numbers; students can discuss how to complete the pattern. Teachers can use a hundreds chart for prompting. The next two slides use snap cubes. Students can have the snap cubes at their desks to create their own patterns or follow along with what is being displayed on the slide.

Ask students for further extension:

- What other patterns can you create using snap cubes?
- Do you see any patterns in the classroom?
- What other objects, words, and/or numbers can you use to create patterns?

ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Student handouts from eBooks
- ✓ Classroom manipulatives
- ✓ Computers/tablets
- ✓ Math journals

ASSESSMENTS

- ✓ Observation
- ✓ Participation
- ✓ Reviewing completed eBooks
- ✓ Review journaling responses
- ✓ Results from the curriculum activities within the Mathletics Teacher Console

ACCOMMODATIONS/ MODIFICATIONS

- ✓ Allow student to access manipulatives to help create patterns.
- ✓ Encourage students to click on "Something Easier" and "Something Harder" within Mathletics curriculum activities.

EXTENSION OF LEARNING

- ✓ Complete any Problem Solving Games they haven't worked on.
- ✓ Curriculum activities
- ✓ Explore Rainforest Maths (Grade 1, Space) within Mathletics
- ✓ Live Mathletics

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The Lesson

 30 MINS

Centres

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



- o **Centre 1: Problem Solving**—On the interactive whiteboard, place a Problem Solving game from the Demonstrations tab within the Teacher Console. Options are located under Problem Solving and then under Patterns. Have the students work in a group to solve the problems. To further their understanding, have students record ways they solved the problems in their journals.
- o **Centre 2: Computers/tablets**—Students are to work in their Student Console to complete Pattern curriculum activities. These activities are located in the Student Console under "Patterns." Activities they can choose from are; Simple Patterns, Color Patterns, Missing It!, Pattern Error, and Balancing Act.
- o **Centre 3: eBooks**—Students are to complete the pre-selected pages. Teacher can place manipulatives to help support various learning styles. If you would like the students to pair up and complete partner activities, please refer to pages 5, 7, 11, 14, 16, 20, 22, 25 or 27. These activities are designed to solve with a partner.

- **Extra-time activity/cross-curriculum activity:** Have the students create an acrostic poem with the word pattern.

After the lesson

 5 MINS

- Have the students discuss some of the patterns they came across.
- What are the different attributes used to create patterns?
- What are some of the strategies they used to solve a problem or complete a pattern?
- Have the students go home and look for patterns in their homes or community.



For more information contact our friendly team...

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