


LESSON PLANS: SASKATCHEWAN

Grade 3: Space and Shape

 45 MINS

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 Mathletics

Outcome: SS3.4

- Demonstrate understanding of 3D objects by analyzing characteristics including faces, edges, and vertices.

Introduction to Lesson

 10 MINS

Teacher Background:

Recall prior information by having a class discussion about 3D objects and their characteristics. To prompt students' prior learning, ask questions like, I am shaped like a soccer ball, or, I have a pointy top and I can roll. On the board, write down faces, edges, and vertices. On the interactive whiteboard, go to

[Teacher Console](#) > [Demonstrations](#) > [Concept Search](#).

Click on **Concept Search** and search the words, edges, faces, vertex. Each slide will give a definition along with pictures. Discuss while viewing all slides, or have students write down the definitions in the math dictionaries.

Questions to ask:

- How are they similar or different?
- What 2D shapes do you see in these objects?
- How can you describe a face, edge, or vertex to a partner?
- How many vertices, edges, and faces does a sphere have? Cylinder? Cone?

ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher and student logins
- ✓ eBook student pages from Grade 3 "Shape, Space and Position"
- ✓ Shape manipulatives/nets
- ✓ Math journals
- ✓ Computers/mobile devices

ASSESSMENTS

- ✓ Observation and participation
- ✓ Reviewing completed student worksheets
- ✓ Results from the Mathletics curriculum activities, located under Reports in Teacher Console

ACCOMMODATIONS/ MODIFICATIONS

- ✓ Provide students with manipulatives
- ✓ Provide students with extra worksheets from grade 2 or grade 4 eBooks about 3D shapes.
- ✓ Encourage students to click on "Something Easier" and "Something Harder" within Mathletics curriculum activities.

EXTENSION OF LEARNING

- ✓ Curriculum activities
- ✓ Explore more in Concept Search and Rainforest Maths
- ✓ Live Mathletics

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The Lesson

 30 MINS

Rainforest Maths

- **Investigate:** "Rainforest Maths"—Students are to investigate further within Rainforest Maths. Have students work in partners.
 - Teachers can encourage students to record their information in the math journals.
 - Direct them to click on **Rainforest Maths > Grade 3 > 3D shapes**.
 - There are several options for them to explore. Students can review 3D shapes first by clicking on the **3D** and **about** icons on the left side and then carrying on with the other areas.
 - After students have had time to explore, have them share with the class the information they found.
- **Apply:** eBooks—Students complete the student pages within the **eBooks > Grade 3 > Shape, Space and Position**. Recommended pages are 14–24.
- **Reinforcement:** Using computers or mobile devices, students complete curriculum activities in the Mathletics Student Console.
 - Suggested activities: Relate Shapes and Solids; Faces, Edges and Vertices; Prisms and Pyramids; Count Sides and Corners.
- **Extra-time activity/cross-curriculum activity:** Nets—Students can create 3D nets to further their extension. Students can label and record all the edges, faces, and vertices.



After the lesson

 5 MINS

- Hold up objects found in the classroom and have the students identify where the edges, vertices, and faces are.
- Have students bring in disposable three-dimensional objects from home. Students will disassemble the objects. This will allow students to view the structure of these objects and analyze the edges, faces, and vertices.



For more information contact our friendly team...
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